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Building Trust. Engineering Success.

Robin Mongeon, P.E.
New Hampshire Department of Environmental Services
Waste Management Division
PO Box 95, 29 Hazen Drive
Concord, NH 03302-0095

August 7, 2013
File No. 2158.01

Re: Summary of Field Documentation and Analytical Data
Mohawk Tannery Site – Southern Parcel Study
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Dear Robin:

Enclosed please find the Summary of Field Documentation and Analytical Data, Mohawk Tannery Site – Southern Parcel Study, Nashua, New Hampshire, prepared for the New Hampshire Department of Environmental Services (NHDES) by Sanborn, Head & Associates, Inc.

We appreciate the opportunity to be of service to the NHDES on this project. If you have any questions or require additional information, please contact us.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.

Kelly M. Dubois
Project Quality Assurance Manager

Timothy M. White, P.G.
Project Manager

Charles A. Crocetti, Ph.D., P.G.
Senior Vice President and Principal

KMD/CAC:kmd
Encl. Summary of Field Documentation and Analytical Data
cc: Gerardo Milan-Ramos, USEPA
Rick Sugatt, USEPA

SDMS Doc ID 555158

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REVISION HISTORY

July 2, 2013
Table 4 – Summary of Analytical Results – Sediment
Corrected various metals results reported by NHDPHS Laboratory.

August 5, 2013
Table 3 – Summary of Analytical Results – Soil
Corrected NHDES Soil Standard for dioxin.

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SUMMARY OF FIELD DOCUMENTATION AND ANALYTICAL DATA

Mohawk Tannery Site – Southern Parcel Study

Nashua, New Hampshire

NHDES Site No. 198404002

USEPA QA Tracking # 12121

Prepared for the New Hampshire Department of Environmental Services

File No. 2158.01

July 2013

TABLE OF CONTENTS

Tables

Table 1a Summary of Analytical Results – Groundwater from Monitoring Wells
Table 1b Summary of Analytical Results – Groundwater from Mini-Piezometers
Table 2 Summary of Analytical Results – Surface Water
Table 3 Summary of Analytical Results – Soil
Table 4 Summary of Analytical Results – Sediment
Table 5 Summary of Analytical Results – Sediment Grain Size

Figures

Figure 1 Locus Plan
Figure 2 Exploration Location Plan
Figure 3 Groundwater Elevation Contour Plan, Northern and Southern Parcel

Appendix A Data Validation / Laboratory Reports

Appendix A.1 NHDPHS Laboratory Validation and Laboratory Reports
Appendix A.2 USEPA Laboratory Validated Laboratory Reports
Appendix A.3 Alpha Analytical Validation Reports and Laboratory Reports
Appendix A.4 USEPA Contract Laboratory Validation Reports
Appendix A.5 Eastern Analytical Validation Reports and Laboratory Reports
Appendix A.6 Geotesting Express Report

Appendix B Soil Field Documentation

Soil SDG Tracking Forms
Soil Field Sampling Summaries
Soil Sampling Photographs
Field Audit
PID Calibration Form
Performance Evaluation Sample Chain-of-Custody Receipt
Soil Bottle Certificates of Analysis
Field Notes

Appendix C Sediment Field Documentation

Sediment SDG Tracking Forms
Sediment Field Sampling Summaries
Sediment Sampling Photographs
Field Audit
PID Calibration Form
Performance Evaluation Sample Chain-of-Custody Receipt
Sediment Bottle Certificates of Analysis
Field Notes

Appendix D Groundwater / Mini-Piezometer / Surface Water Field Documentation

SDG Tracking Forms
- Groundwater
- Mini-Piezometer
- Surface Water

Field Sampling Forms
- Groundwater Low Flow Purge and Sample Data Sheets
- Mini-Piezometer Purge and Sample Data Sheets
- Surface Water Field Sampling Summary

Field Audit
Groundwater and Surface Water Calibration Forms
Groundwater and Surface Water Performance Evaluation Sample Chain-of-Custody Receipt
Groundwater and Surface Water Groundwater Bottle Certificates of Analysis
Water Level Measurements
Field Notes

Appendix E Stilling Well / Mini-Piezometer Installation / Survey Data

Mini-Piezometer Install/Adjust Data
Mini-Piezometer Hydraulic Testing Forms
Stilling Well Water Level Measurement
Monitoring Well/Mini-Piezometer Survey Data
Field Notes

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SUMMARY OF FIELD DOCUMENTATION AND ANALYTICAL DATA MOHAWK TANNERY SITE – SOUTHERN PARCEL STUDY

INTRODUCTION

At the request of the New Hampshire Department of Environmental Services (NHDES) and the U.S. Environmental Protection Agency (USEPA), Sanborn Head, & Associates, Inc. (Sanborn Head) performed environmental sampling in fall 2012 at the Mohawk Tannery Site Southern Parcel (the "Site") located in Nashua, New Hampshire, and submitted the samples for laboratory analysis. The Mohawk Tannery Site, located at 11 Warsaw Avenue in Nashua, consists of two contiguous 15-acre parcels of land: a developed "Northern Parcel" which was historically used for tannery manufacturing and waste disposal operations, and a "Southern Parcel," which is largely undeveloped and does not appear to have been heavily used by the tannery.

The goal of this field and laboratory program was to provide the analytical data adequate to support a screening level human health and ecological risk assessment of the Southern Parcel for potential "delisting" as a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) site. Sanborn Head's sampling and the laboratory analyses were performed consistent with the site-specific Sampling and Analysis Plan (SAP)[1], approved by USEPA and NHDES on October 1, 2012. Refer to this SAP and Sanborn Head's June 2005 Draft Final Remedial Investigation (RI) Report for Operable Unit 1 (OU1) for the Northern Parcel, for additional information regarding the Mohawk Tannery Site.

This Field Documentation and Analytical Data Package has been prepared by Sanborn Head to document the field activities performed, and the analytical laboratory data for the samples submitted for analysis, as part of the fall 2012 investigation. The information contained herein and our services are subject to the following limitations.

LIMITATIONS

1. The information contained in this data package are based in part on the data obtained from a limited number of soil, sediment, surface water, and groundwater samples from widely spaced subsurface explorations/sampling locations. The nature and extent of variations between these explorations may not become evident until further investigation or remediation is initiated. If variations or other latent conditions then appear evident, it will be necessary to re-evaluate the information in this data package.

2. Water level measurements have been made in the monitoring wells and mini-piezometers at times and under conditions stated within the field documentation. Note that fluctuations in the level of the groundwater and surface water may occur

[1] Sanborn Head. 2012. Sampling and Analysis Plan Mohawk Tannery Site – Southern Parcel Study. Dated September 28, 2012; approved by USEPA and NHDES on October 1, 2012.

due to variations in rainfall and other factors not evident at the time measurements were made.

3. Quantitative laboratory analyses were performed as part of the investigation as noted within the data package. The analyses were performed for specific parameters that were selected during the course of this study. It must be noted that additional compounds not searched for during the current study may be present in soil, sediment, surface water, and groundwater at the site. Sanborn Head has relied upon the data provided by the analytical laboratories, and the review of the reliability of these data performed by USEPA and the New Hampshire Division of Public Health Services (NHDPHS)/NHDES. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their distribution within the soil, sediment, surface water, and groundwater may occur due to the passage of time, seasonal water table fluctuations, recharge events, and other factors.

4. This data package contains various types of chemical data. Should additional chemical data, historical information, or hydrogeologic information become available in the future, such information should be reviewed by Sanborn Head and the information presented herein should be modified accordingly.

5. This data package has been prepared for the exclusive use of NHDES and USEPA for specific application for risk evaluation at the Mohawk Tannery Southern Parcel, in accordance with generally accepted environmental and hydrogeologic practices. No warranty, express or implied, is made.

6. The information contained in this data package is based on the data obtained from the referenced subsurface explorations. The explorations indicate subsurface conditions only at the specific locations and times, and only to the depths penetrated. They do not necessarily reflect strata variations that may exist between such locations. Variations between locations may be confirmed only during remediation. If subsurface conditions different from those described become evident, the information in this data package must be re-evaluated.

TABLES

TABLE 1a
Summary of Analytical Results – Groundwater from Monitoring Wells
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_GZ-10		MHK_GZ-10 Duplicate (OW-121, OW-221, OW-321, OW-521)		MHK_GZ-11		MHK_GZ-13		MHK_GZ-14		MHK_SH-13		MHK_SH-19		MHK_SH-19		EQUIP BLANK (Bladder Pump)		EQUP BLANK (Water Level)		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
					Human Health Risk (Monitoring Wells only)			10/17/12		10/17/12		10/17/12		10/16/12		10/16/12		10/18/12		10/16/12		10/16/12		10/17/12		10/17/12		10/02/12		10/02/12		10/02/12		10/02/12	
								USEPA R1: 12100027 AB34801		USEPA R1: 12100027 AB34805		USEPA R1: 12100033 AB34891		USEPA R1: 12100027 AB34802		USEPA R1: 12100027 AB34803		USEPA R1: 12100033 AB34892		USEPA R1: 12100027 AB34804		USEPA R1: 12100027 AB34823		USEPA R1: 12100027 AB34806		USEPA R1 12100027 AB34816 12100033 AB34894		USEPA R1: 12100027 AB34807		USEPA R1: 12100033 AB34893					
								NHDPHS: A209573001		NHDPHS: A209573006		NHDPHS: A209625001		NHDPHS: A209573002		NHDPHS: A209573003		NHDPHS: A209625002		NHDPHS: A209573005		NHDPHS: A209573004		NHDPHS: A209573007		NHDPHS: A209564008									
					MCL	NHDES AGQS	Tapwater RSL	Alpha: L1218701-01		Alpha: L1218701-05		Alpha: L1218886-01		Alpha: L1218701-02		Alpha: L1218701-03		Alpha: L1218886-02		Alpha: L1218701-04		Alpha: L1218701-04		Alpha: L1218701-06		Alpha: L1218704-08									
								EAI: 115226.01		EAI: 115226.05		EAI: 115278.01		EAI: 115226.02		EAI: 115226.03		EAI: 115278.02				EAI: 115226.04		EAI: 115226.06		EAI: 115227.08		EAI: 115226.07		EAI: 115227.09		EAI: 115273.1		EAI: 115278.03	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs								Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered	
Acetone (2-Propanone)	67-64-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0		1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Acrylonitrile	107-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Benzene	71-43-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromobenzene	108-86-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromochloromethane	74-97-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromodichloromethane	75-27-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromoform	75-25-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromomethane	74-83-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butanone (2-) (MEK)	78-93-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butylbenzene (n-)	104-51-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butylbenzene (sec-)	135-98-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butylbenzene (tert-)	98-06-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Carbon Disulfide	75-15-0	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Carbon Tetrachloride	56-23-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chlorobenzene	108-90-7	USEPA R1	$VOAMW	µg/L	100	100	72	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chloroethane	75-00-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chloroform	67-66-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chloromethane	74-87-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chlorotoluene (2-)	95-49-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chlorotoluene (4-)	106-43-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromo-3-Chloropropane (1,2-)	96-12-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromochloromethane	124-48-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromoethane (1,2-)	106-93-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromomethane	74-95-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$VOAMW	µg/L	600	600	280	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$VOAMW	µg/L	75	75	0.42	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorodifluoromethane	75-71-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethane (1,1-)	75-34-3	USEPA R1	$VOAMW	µg/L	–	–	–	3.2		3.1		3.3		1.8		1.0	U	1.0	U	N/A		2.0		1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethane (1,2-)	107-06-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethylene (1,1-)	75-35-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethylene (cis-1,2-)	156-59-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethylene (trans-1,2-)	156-60-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropane (1,2-)	78-87-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropane (1,3-)	142-28-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropane (2,2-)	594-20-7	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropene (1,1-)	563-58-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropene (cis-1,3-)	10061-01-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropene (trans-1,3-)	10061-02-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
1,4-Dioxane	123-91-1	EAI	8260B-SIM	µg/L	NA	3	NA	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Ethyl Ether	60-29-7	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Ethylbenzene	100-41-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Hexachlorobutadiene	87-68-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Hexanone (2-)	591-78-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Isopropylbenzene	98-82-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Isopropyltoluene (para-)	99-87-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Methylene Chloride	75-09-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Methyl-t-Butyl Ether	1634-04-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.1		1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Naphthalene	91-20-3	USEPA R1	$VOAMW	µg/L	NA	20	0.14	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Propylbenzene (n-)	103-65-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Styrene	100-42-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrachloroethane (1,1,1,2-)	630-20-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrachloroethane (1,1,2,2-)	79-34-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrachloroethylene	127-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrahydrofuran	109-99-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Toluene	108-88-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichlorobenzene (1,2,3-)	87-61-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloroethane (1,1,1-)	71-55-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloroethane (1,1,2-)	79-00-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloroethylene	79-01-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichlorofluoromethane	75-69-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloropropane (1,2,3-)	96-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trimethylbenzene (1,2,4-)	95-63-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trimethylbenzene (1,3,5-)	108-67-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Vinyl Acetate	108-05-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Vinyl Chloride	75-01-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Xylene (m,p-)	108-38-3/106-42-3	USEPA R1	$VOAMW	µg/L	–	–	–	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	N/A		2.0	U	2.0	U	2.0	U	2.0	U	2.0	UJ	N/A		N/A	

TABLE 1a
Summary of Analytical Results – Groundwater from Monitoring Wells
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs) Human Health Risk (Monitoring Wells only) MCL	NHDES AGQS	Tapwater RSL	MHK_GZ-10		MHK_GZ-10 Duplicate (OW-121, OW-221, OW-321, OW-521)		MHK_GZ-11		MHK_GZ-13		MHK_GZ-14		MHK_SH-13		MHK_SH-19		MHK_SH-19		EQUIP BLANK (Bladder Pump)		EQUP BLANK (Water Level)		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
								10/17/12		10/17/12		10/17/12		10/16/12		10/16/12		10/18/12		10/16/12		10/16/12		10/17/12		10/17/12		10/02/12		10/02/12		10/02/12		10/02/12	
								USEPA R1: 12100027 AB34801		USEPA R1: 12100027 AB34805		USEPA R1: 12100033 AB34891		USEPA R1: 12100027 AB34802		USEPA R1: 12100027 AB34803		USEPA R1: 12100033 AB34892		USEPA R1: 12100027 AB34804		USEPA R1: 12100027 AB34823		USEPA R1: 12100027 AB34806		USEPA R1 12100027 AB34816 12100033 AB34894		USEPA R1: 12100027 AB34807		USEPA R1: 12100033 AB34893					
								NHDPHS: A209573001		NHDPHS: A209573006		NHDPHS: A209625001		NHDPHS: A209573002		NHDPHS: A209573003		NHDPHS: A209625002		NHDPHS: A209573005		NHDPHS: A209573004		NHDPHS: A209573007		NHDPHS: A209564008									
								Alpha: L1218701-01		Alpha: L1218701-05		Alpha: L1218886-01		Alpha: L1218701-02		Alpha: L1218701-03		Alpha: L1218886-02		Alpha: L1218701-04		Alpha: L1218701-04		Alpha: L1218701-06		Alpha: L1218704-08									
								EAI: 115226.01		EAI: 115226.05		EAI: 115278.01		EAI: 115226.02		EAI: 115226.03		EAI: 115278.02				EAI: 115226.04		EAI: 115226.06		EAI: 115227.08		EAI: 115226.07		EAI: 115227.09		EAI: 115273.1		EAI: 115278.03	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Xylene (o-)	95-47-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
SVOCs								Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered		Unfiltered		Unfiltered		Unfiltered									
Acenaphthene	83-32-9	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Acenaphthylene	208-96-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Acetophenone	98-86-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Aniline	62-53-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Anthracene	120-12-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Aramite	140-57-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Azobenzene	103-33-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzidine	92-87-5	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(a)anthracene	56-55-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(a)pyrene	50-32-8	USEPA R1	$BNAW	µg/L	0.2	0.2	0.0029	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(b)fluoranthene	205-99-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(g,h,i)perylene	191-24-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(k)fluoranthene	207-08-9	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzoic acid	65-85-0	USEPA R1	$BNAW	µg/L	–	–	–	5.0	U	5.0	U	20	U	5.0	U	5.0	U	20	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Benzyl alcohol	100-51-6	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
bis(-2-Chloroethoxy)methane	111-91-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Bis(2-Chloroethyl)ether	111-44-4	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Bis(2-ethylhexyl)phthalate	117-81-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Bromophenyl-phenylether (4-)	101-55-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Butylbenzylphthalate	85-68-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Carbazole	86-74-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chloro-3-methylphenol (4-)	59-50-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chloroaniline (4-)	106-47-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chlorobenzilate	510-15-6	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chloronaphthalene (2-)	91-58-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chlorophenol (2-)	95-57-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chrysene	218-01-9	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dibenz(a,h)anthracene	53-70-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dibenzofuran	132-64-9	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$BNAW	µg/L	600	600	280	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$BNAW	µg/L	75	75	0.42	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzidine (3,3'-)	91-94-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorophenol (2,4-)	120-83-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorophenol (2,6-)	87-65-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Diethylphthalate	84-66-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dimethyl phthalate	131-11-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dimethylphenol (2,4-)	105-67-9	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Di-n-butylphthalate	84-74-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	USEPA R1	$BNAW	µg/L	–	–	–	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Dinitrobenzene (1,3-)	99-65-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	5.0	U	2.5	U	2.5	U	5.0	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinitrophenol (2,4-)	51-28-5	USEPA R1	$BNAW	µg/L	–	–	–	5.0	U	5.0	U	10	U	5.0	U	5.0	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Dinitrotoluene (2,4-)	121-14-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinitrotoluene (2,6-)	606-20-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Di-n-octyl phthalate	117-84-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinoseb	88-85-7	USEPA R1	$BNAW	µg/L	–	–	–	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Ethyl methanesulfonate	62-50-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Fluoranthene	206-44-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Fluorene	86-73-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachlorobenzene	118-74-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachlorobutadiene	87-68-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachlorocyclopentadiene	77-47-4	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	5.0	U	2.5	U	2.5	U	5.0	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachloroethane	67-72-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachloropropene	1888-71-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Isodrin	465-73-6	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Isophorone	78-59-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Isosafrole	120-58-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Kepone	143-50-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methyl methanesulfonate	66-27-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylcholanthrene (3-)	56-49-5	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylnaphthalene (1-)	90-12-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylnaphthalene (2-)	91-57-6	USEPA R1	$BNAW	µg/L	NA	280	27	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylphenol (2-)	95-48-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	USEPA R1	$BNAW	µg/L	NA	40	72	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Naphthalene	91-20-3	USEPA R1	$BNAW	µg/L	NA	20	0.14	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Naphthoquinone (1,4-)	130-15-4	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroaniline (2-)	88-74-4	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroaniline (3-)	99-09-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	

TABLE 1a
Summary of Analytical Results – Groundwater from Monitoring Wells
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_GZ-10		MHK_GZ-10 Duplicate (OW-121, OW-221, OW-321, OW-521)		MHK_GZ-11		MHK_GZ-13		MHK_GZ-14		MHK_SH-13		MHK_SH-19		MHK_SH-19		EQUIP BLANK (Bladder Pump)		EQUP BLANK (Water Level)		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
					Human Health Risk (Monitoring Wells only)			10/17/12		10/17/12		10/17/12		10/16/12		10/16/12		10/18/12		10/16/12		10/16/12		10/17/12		10/17/12		10/02/12		10/02/12		10/02/12		10/02/12	
								USEPA R1: 12100027 AB34801		USEPA R1: 12100027 AB34805		USEPA R1: 12100033 AB34891		USEPA R1: 12100027 AB34802		USEPA R1: 12100027 AB34803		USEPA R1: 12100033 AB34892		USEPA R1: 12100027 AB34804		USEPA R1: 12100027 AB34823		USEPA R1: 12100027 AB34806		USEPA R1 12100027 AB34816 12100033 AB34894		USEPA R1: 12100027 AB34807		USEPA R1: 12100033 AB34893					
								NHDPHS: A209573001		NHDPHS: A209573006		NHDPHS: A209625001		NHDPHS: A209573002		NHDPHS: A209573003		NHDPHS: A209625002		NHDPHS: A209573005		NHDPHS: A209573004		NHDPHS: A209573007		NHDPHS: A209564008									
					MCL	NHDES AGQS	Tapwater RSL	Alpha: L1218701-01		Alpha: L1218701-05		Alpha: L1218886-01		Alpha: L1218701-02		Alpha: L1218701-03		Alpha: L1218886-02		Alpha: L1218701-04		Alpha: L1218701-04		Alpha: L1218701-06		Alpha: L1218704-08									
								EAI: 115226.01		EAI: 115226.05		EAI: 115278.01		EAI: 115226.02		EAI: 115226.03		EAI: 115278.02				EAI: 115226.04		EAI: 115226.06		EAI: 115227.08		EAI: 115226.07		EAI: 115227.09		EAI: 115273.1		EAI: 115278.03	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Nitroaniline (4-)	100-01-6	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrobenzene	98-95-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrophenol (2-)	88-75-5	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrophenol (4-)	100-02-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	5.0	U	2.5	U	2.5	U	5.0	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
nitroquinoline-1-oxide (4-)	56-57-5	USEPA R1	$BNAW	µg/L	–	–	–	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	N/A		N/A		N/A		N/A	
Nitrosodimethylamine (N-)	62-75-9	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroso-di-n-propylamine (N-)	621-64-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrosodiphenylamine (N-)	86-30-6	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pentachlorobenzene	608-93-5	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pentachloronitrobenzene	82-68-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pentachlorophenol	87-86-5	USEPA R1	$BNAW	µg/L	1	1	0.17	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Phenacetin	62-44-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Phenanthrene	85-01-8	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Phenol	108-95-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pyrene	129-00-0	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pyridine	110-86-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Safrole	94-59-7	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Trichlorophenol (2,4,5-)	95-95-4	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Trichlorophenol (2,4,6-)	88-06-2	USEPA R1	$BNAW	µg/L	–	–	–	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Metals								Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered		Unfiltered		Unfiltered		Unfiltered									
Antimony	7440-36-0	NHDPHS	EPA 200.8	µg/L	6	6	6	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	N/A		N/A		N/A		N/A	
Arsenic	7440-38-2	NHDPHS	EPA 200.8	µg/L	10	10	0.045	**4.1**		**4.1**		**13.0**		**7.7**		**11.2**		**1.2**		**161**		**16.8**		1.0	U	1.0	U	N/A		N/A		N/A		N/A	
Barium	7440-39-3	NHDPHS	EPA 200.8	µg/L	2,000	2,000	2,900	29.1		29.1		39.7		49.8		11.4		8.6		23.2		16.9		5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Cadmium	7440-43-9	NHDPHS	EPA 200.8	µg/L	5	5	6.9	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	N/A		N/A		N/A		N/A	
Chromium	7440-47-3	Alpha	EPA 6010C	µg/L	100	100	NA	10	U	10	U	10	U	10	U	10	U	30		10	U	10	U	10	U	10	U	N/A		N/A		N/A		N/A	
Hexavalent Chromium	18540-29-9	Alpha	SM 3500CR-D	µg/L	NA	NA	0.031	10	U	10	U	N/A		N/A		N/A		N/A		N/A		N/A		10	U	10	U	N/A		N/A		N/A		N/A	
Lead	7439-92-1	NHDPHS	EPA 200.8	µg/L	15	15	NA	1.0	U	1.0	U	1.0	U	1.4		1.9		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A		N/A		N/A	
Manganese	7439-96-5	NHDPHS	EPA 200.8	µg/L	NA	840	320	**2,500**		**2,540**		**2,810**		**1,090**		10.2		8.1		**1,140**		**1,100**		5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Mercury	7439-97-6	NHDPHS	EPA 245.1	µg/L	2	2	4.3	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	N/A		N/A		N/A		N/A	
Thallium	7440-28-0	NHDPHS	EPA 200.8	µg/L	2	2	0.16	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A		N/A		N/A	
Vanadium	7440-62-2	NHDPHS	EPA 200.8	µg/L	NA	NA	78	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	

Notes:

1. Samples were collected by Sanborn Head on the dates indicated and were analyzed by the laboratories and methods indicated. Refer to the analytical laboratory reports for full method references. Laboratory report numbers and sample numbers are presented in the header beneath the sample collection dates.
   "USEPA R1" indicates the United States Environmental Protection Agency Region 1 New England Region Laboratory in North Chelmsford, Massachusetts.
   "NHDPHS" indicates the New Hampshire Division of Public Health Services laboratory in Concord, New Hampshire.
   "Alpha" indicates Alpha Analytical of Westboro, Massachusetts.
   "EAI" indicates Eastern Analytical, Inc. of Concord, New Hampshire.

2. NHDPHS data were validated by NHDPHS personnel using USEPA Region 1 Modified Tier 1.
   USEPA R1 data were reviewed by USEPA R1 personnel in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.
   Alpha and EAI data were validated by USEPA personnel using Stage 2A Manual Validation.

3. "U" indicates the analyte was not detected above the indicated laboratory reporting limit.
   "J" indicates an estimated value. Refer to the data validation report for further information.
   "N/A" indicates the sample was not analyzed for this parameter.

4. Only analytes which were detected or with an established Project Action Limit are displayed. Refer to the analytical laboratory reports and/or data validation reports for the full list of analytes.

5. Concentrations are presented in micrograms per liter (µg/l) which are equivalent to parts per billion (ppb).

6. Project Action Limits (PALs) are from Sanborn Head's "Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, New Hampshire, NHDES Site No. 198404002, USEPA QA Tracking # 12121," dated September 2012. PALs provided to Sanborn Head by NHDES on July 19, 2012. The following notes apply to the PALs:
   RSL = USEPA Tapwater Regional Screening Level (http://www.epa.gov/region9/superfund/prg/index.html)
   MCL = Safe Drinking Water Act Maximum Contaminant Level (http://water.epa.gov/drink/contaminants/index.cfm)
   NHDES AGQS = Ambient Groundwater Quality Standards (AGQSs) promulgated in Env-Or 600 (July 2008) (http://des.nh.gov/organization/commissioner/legal/rules/documents/env-or600.pdf)
   "–" indicates PALs were not established for this analyte.
   NA = not applicable

7. Gray font indicates not detected or not analyzed.
   Black font indicates detected at a concentration below the lowest PAL, or detected parameter for which no PAL is established.
   Bold black font indicates detected concentration that exceeds the lowest PAL.

8. Yellow shading indicates the lowest applicable PAL.
   Blue shading indicates the detected concentration exceeds the lowest PAL.
   Orange shading indicates the reporting limit exceeds the lowest PAL.

9. "*" Indicates as part of this sampling event, samples were analyzed for total chromium, with a subset of samples also analyzed for hexavalent chromium. Chromium results are herein compared to the indicated PAL(s).

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_PZ-01		MHK_PZ-02		MHK_PZ-03		MHK_PZ-04		MHK_PZ-05		MHK_PZ-06		MHK_PZ-07		MHK_PZ-08		MHK_PZ-09		MHK_PZ-10		MHK_PZ-11		MHK_PZ-12	
					Ecological Risk (Mini-Piezometers only) #			10/17/12		10/16/12		10/16/12		10/16/12		10/17/12		10/17/12		10/18/12		10/18/12		10/18/12		10/18/12		10/17/12		10/18/12	
								USEPA R1: 12100027 AB34809		USEPA R1: 12100027 AB34810		USEPA R1: 12100027 AB34811		USEPA R1: 12100027 AB34812		USEPA R1: 12100033 AB34882		USEPA R1: 12100027 AB34813		USEPA R1: 12100033 AB34883		USEPA R1: 12100033 AB34884		USEPA R1: 12100033 AB34885		USEPA R1: 12100033 AB34886		USEPA R1: 12100033 AB34887		USEPA R1: 12100033 AB34888	
								NHDPHS: A209564001		NHDPHS: A209564002		NHDPHS: A209564003		NHDPHS: A209564004		NHDPHS: A209624001		NHDPHS: A209564005		NHDPHS: A209624002		NHDPHS: A209624003		NHDPHS: A209624004		NHDPHS: A209624005		NHDPHS: A209624006		NHDPHS: A209624007	
					Freshwater CCC		EPA R3	Alpha: L1218704-01		Alpha: L1218704-02		Alpha: L1218704-03		Alpha: L1218704-04		Alpha: L1218885-01		Alpha: L1218704-05		Alpha: L1218885-02		Alpha: L1218885-03		Alpha: L1218885-04		Alpha: L1218885-05		Alpha: L1218885-06		Alpha: L1218885-07	
					NRWQC	NHDES SWQC		EAI: 115227.01		EAI: 115227.02		EAI: 115227.03		EAI: 115227.04		EAI: 115273.01		EAI: 115227.05		EAI: 115273.02		EAI: 115273.03		EAI: 115273.04		EAI: 115273.05		EAI: 115273.06		EAI: 115273.07	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs								Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered	
Acetone (2-Propanone)	67-64-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1		1.0	U	1.0	U	1.0	U	1.0	U	1.1	
Acrylonitrile	107-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Benzene	71-43-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromobenzene	108-86-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	74-97-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	75-27-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	75-25-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	74-83-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Butanone (2-) (MEK)	78-93-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Butylbenzene (n-)	104-51-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Butylbenzene (sec-)	135-98-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Butylbenzene (tert-)	98-06-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	75-15-0	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	108-90-7	USEPA R1	$VOAMW	µg/L	NA	50 [1]	1.3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	75-00-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	67-66-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	74-87-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorotoluene (2-)	95-49-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorotoluene (4-)	106-43-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	124-48-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromoethane (1,2-)	106-93-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	74-95-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$VOAMW	µg/L	NA	763 [1]	0.7	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$VOAMW	µg/L	NA	763 [1]	26	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorodifluoromethane	75-71-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethane (1,1-)	75-34-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.8		2.0		1.1		1.5	
Dichloroethane (1,2-)	107-06-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethylene (1,1-)	75-35-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethylene (cis-1,2-)	156-59-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethylene (trans-1,2-)	156-60-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropane (1,2-)	78-87-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropane (1,3-)	142-28-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropane (2,2-)	594-20-7	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropene (1,1-)	563-58-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropene (cis-1,3-)	10061-01-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropene (trans-1,3-)	10061-02-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dioxane	123-91-1	EAI	8260B-SIM	µg/L	NA	NA	NA	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Ethyl Ether	60-29-7	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	100-41-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Hexachlorobutadiene	87-68-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Hexanone (2-)	591-78-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Isopropylbenzene	98-82-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Isopropyltoluene (para-)	99-87-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Methylene Chloride	75-09-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Methyl-t-Butyl Ether	1634-04-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2		1.1		1.0	U	1.0	U
Naphthalene	91-20-3	USEPA R1	$VOAMW	µg/L	NA	620	1.1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Propylbenzene (n-)	103-65-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	100-42-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethane (1,1,1,2-)	630-20-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethane (1,1,2,2-)	79-34-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethylene	127-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrahydrofuran	109-99-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	108-88-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorobenzene (1,2,3-)	87-61-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_PZ-01		MHK_PZ-02		MHK_PZ-03		MHK_PZ-04		MHK_PZ-05		MHK_PZ-06		MHK_PZ-07		MHK_PZ-08		MHK_PZ-09		MHK_PZ-10		MHK_PZ-11		MHK_PZ-12	
					Ecological Risk (Mini-Piezometers only) #			10/17/12		10/16/12		10/16/12		10/16/12		10/17/12		10/17/12		10/18/12		10/18/12		10/18/12		10/18/12		10/17/12		10/18/12	
								USEPA R1: 12100027 AB34809		USEPA R1: 12100027 AB34810		USEPA R1: 12100027 AB34811		USEPA R1: 12100027 AB34812		USEPA R1: 12100033 AB34882		USEPA R1: 12100027 AB34813		USEPA R1: 12100033 AB34883		USEPA R1: 12100033 AB34884		USEPA R1: 12100033 AB34885		USEPA R1: 12100033 AB34886		USEPA R1: 12100033 AB34887		USEPA R1: 12100033 AB34888	
								NHDPHS: A209564001		NHDPHS: A209564002		NHDPHS: A209564003		NHDPHS: A209564004		NHDPHS: A209624001		NHDPHS: A209564005		NHDPHS: A209624002		NHDPHS: A209624003		NHDPHS: A209624004		NHDPHS: A209624005		NHDPHS: A209624006		NHDPHS: A209624007	
					Freshwater CCC		EPA R3	Alpha: L1218704-01		Alpha: L1218704-02		Alpha: L1218704-03		Alpha: L1218704-04		Alpha: L1218885-01		Alpha: L1218704-05		Alpha: L1218885-02		Alpha: L1218885-03		Alpha: L1218885-04		Alpha: L1218885-05		Alpha: L1218885-06		Alpha: L1218885-07	
					NRWQC	NHDES SWQC		EAI: 115227.01		EAI: 115227.02		EAI: 115227.03		EAI: 115227.04		EAI: 115273.01		EAI: 115227.05		EAI: 115273.02		EAI: 115273.03		EAI: 115273.04		EAI: 115273.05		EAI: 115273.06		EAI: 115273.07	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethane (1,1,1-)	71-55-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethane (1,1,2-)	79-00-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethylene	79-01-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	75-69-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloropropane (1,2,3-)	96-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trimethylbenzene (1,2,4-)	95-63-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trimethylbenzene (1,3,5-)	108-67-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl Acetate	108-05-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl Chloride	75-01-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Xylene (m,p-)	8-38-3/106-4	USEPA R1	$VOAMW	µg/L	–	–	–	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Xylene (o-)	95-47-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SVOCs														Filtered								Filtered		Filtered		Filtered				Filtered	
Acenaphthene	83-32-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Acenaphthylene	208-96-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Acetophenone	98-86-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Aniline	62-53-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Anthracene	120-12-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Aramite	140-57-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Azobenzene	103-33-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzidine	92-87-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzo(a)anthracene	56-55-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzo(a)pyrene	50-32-8	USEPA R1	$BNAW	µg/L	NA	NA	0.015	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzo(b)fluoranthene	205-99-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzo(g,h,i)perylene	191-24-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzo(k)fluoranthene	207-08-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Benzoic acid	65-85-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		5.0	U	N/A		N/A		N/A		20	U	20	U	20	U	N/A		20	U
Benzyl alcohol	100-51-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
bis(-2-Chloroethoxy)methane	111-91-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Bis(2-Chloroethyl)ether	111-44-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Bis(2-ethylhexyl)phthalate	117-81-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Bromophenyl-phenylether (4-)	101-55-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Butylbenzylphthalate	85-68-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Carbazole	86-74-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chloro-3-methylphenol (4-)	59-50-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chloroaniline (4-)	106-47-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chlorobenzilate	510-15-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chloronaphthalene (2-)	91-58-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chlorophenol (2-)	95-57-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chlorophenyl-phenylether (4-)	7005-72-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Chrysene	218-01-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dibenz(a,h)anthracene	53-70-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dibenzofuran	132-64-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$BNAW	µg/L	NA	763 [1]	0.7	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$BNAW	µg/L	NA	763 [1]	26	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dichlorobenzidine (3,3'-)	91-94-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dichlorophenol (2,4-)	120-83-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dichlorophenol (2,6-)	87-65-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Diethylphthalate	84-66-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dimethyl phthalate	131-11-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dimethylphenol (2,4-)	105-67-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Di-n-butylphthalate	84-74-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.6		2.5	U	N/A		2.5	U
Dinitro-2-methylphenol (4,6-)	534-52-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		5.0	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Dinitrobenzene (1,3-)	99-65-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Dinitrophenol (2,4-)	51-28-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		5.0	U	N/A		N/A		N/A		10	U	10	U	10	U	N/A		10	U
Dinitrotoluene (2,4-)	121-14-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dinitrotoluene (2,6-)	606-20-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Di-n-octyl phthalate	117-84-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Dinoseb	88-85-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		5.0	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Ethyl methanesulfonate	62-50-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_PZ-01		MHK_PZ-02		MHK_PZ-03		MHK_PZ-04		MHK_PZ-05		MHK_PZ-06		MHK_PZ-07		MHK_PZ-08		MHK_PZ-09		MHK_PZ-10		MHK_PZ-11		MHK_PZ-12	
					Ecological Risk (Mini-Piezometers only) #			10/17/12		10/16/12		10/16/12		10/16/12		10/17/12		10/17/12		10/18/12		10/18/12		10/18/12		10/18/12		10/17/12		10/18/12	
								USEPA R1: 12100027 AB34809		USEPA R1: 12100027 AB34810		USEPA R1: 12100027 AB34811		USEPA R1: 12100027 AB34812		USEPA R1: 12100033 AB34882		USEPA R1: 12100027 AB34813		USEPA R1: 12100033 AB34883		USEPA R1: 12100033 AB34884		USEPA R1: 12100033 AB34885		USEPA R1: 12100033 AB34886		USEPA R1: 12100033 AB34887		USEPA R1: 12100033 AB34888	
								NHDPHS: A209564001		NHDPHS: A209564002		NHDPHS: A209564003		NHDPHS: A209564004		NHDPHS: A209624001		NHDPHS: A209564005		NHDPHS: A209624002		NHDPHS: A209624003		NHDPHS: A209624004		NHDPHS: A209624005		NHDPHS: A209624006		NHDPHS: A209624007	
					Freshwater CCC		EPA R3	Alpha: L1218704-01		Alpha: L1218704-02		Alpha: L1218704-03		Alpha: L1218704-04		Alpha: L1218885-01		Alpha: L1218704-05		Alpha: L1218885-02		Alpha: L1218885-03		Alpha: L1218885-04		Alpha: L1218885-05		Alpha: L1218885-06		Alpha: L1218885-07	
					NRWQC	NHDES SWQC		EAI: 115227.01		EAI: 115227.02		EAI: 115227.03		EAI: 115227.04		EAI: 115273.01		EAI: 115227.05		EAI: 115273.02		EAI: 115273.03		EAI: 115273.04		EAI: 115273.05		EAI: 115273.06		EAI: 115273.07	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Fluoranthene	206-44-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Fluorene	86-73-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Hexachlorobenzene	118-74-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Hexachlorobutadiene	87-68-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Hexachlorocyclopentadiene	77-47-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Hexachloroethane	67-72-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Hexachloropropene	1888-71-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Indeno(1,2,3-cd)pyrene	193-39-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Isodrin	465-73-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Isophorone	78-59-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Isosafrole	120-58-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Kepone	143-50-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	UJ	2.5	UJ	2.5	UJ	N/A		2.5	UJ
Methyl methanesulfonate	66-27-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Methylcholanthrene (3-)	56-49-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Methylnaphthalene (1-)	90-12-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Methylnaphthalene (2-)	91-57-6	USEPA R1	$BNAW	µg/L	NA	NA	4.7	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Methylphenol (2-)	95-48-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Methylphenol (3,4-)	108-39-4 106-44-5	USEPA R1	$BNAW	µg/L	NA	NA	543	N/A		N/A		N/A		5.0	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Naphthalene	91-20-3	USEPA R1	$BNAW	µg/L	NA	620	1.1	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Naphthoquinone (1,4-)	130-15-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitroaniline (2-)	88-74-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitroaniline (3-)	99-09-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitroaniline (4-)	100-01-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitrobenzene	98-95-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitrophenol (2-)	88-75-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitrophenol (4-)	100-02-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Nitroquinoline-1-oxide (4-)	56-57-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		10	U	N/A		N/A		N/A		10	U	10	U	10	U	N/A		10	U
Nitrosodimethylamine (N-)	62-75-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitroso-di-n-propylamine (N-)	621-64-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Nitrosodiphenylamine (N-)	86-30-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Oxybis(1-chloropropane) (2,2'-)	108-60-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Pentachlorobenzene	608-93-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Pentachloronitrobenzene	82-68-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Pentachlorophenol	87-86-5	USEPA R1	$BNAW	µg/L	15	4.05	0.5	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		5.0	U	5.0	U	5.0	U	N/A		5.0	U
Phenacetin	62-44-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Phenanthrene	85-01-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Phenol	108-95-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Pyrene	129-00-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Pyridine	110-86-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Safrole	94-59-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Tetrachlorobenzene (1,2,4,5-)	95-94-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Tetrachlorophenol (2,3,4,6-)	58-90-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Trichlorophenol (2,4,5-)	95-95-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Trichlorophenol (2,4,6-)	88-06-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		N/A		N/A		2.5	U	N/A		N/A		N/A		2.5	U	2.5	U	2.5	U	N/A		2.5	U
Metals								Filtered		Filtered		Filtered		Filtered		Filtered		Filtered		Filtered		Filtered		Filtered		Filtered		Filtered		Filtered	
Antimony	7440-36-0	NHDPHS	EPA 200.8	µg/L	NA	1,600	30	1.0	U	1.0	U	1.0	U	2.6		1.0	U	1.0	U	2.7		1.0	U	1.6		1.0	U	1.0	U	2.4	
Arsenic	7440-38-2	NHDPHS	EPA 200.8	µg/L	150	150	5	**18.2**		1.0	U	1.0		**13.1**		**13.1**		**21.4**		**5.5**		**7.7**		3.6		3.6		**5.1**		**7.6**	
Barium	7440-39-3	NHDPHS	EPA 200.8	µg/L	NA	NA	4	5.0	U	**8.8**		**54.3**		**52.1**		**15.0**		**16.0**		**43.4**		**30.7**		**24.8**		**20.0**		**38.1**		**37.9**	
Cadmium	7440-43-9	NHDPHS	EPA 200.8	µg/L	0.25	0.8	0.25	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chromium	7440-47-3	Alpha	EPA 6010C	µg/L	74 (III) *	24 (III) *	85 (total) 74 (III) *	10	U	10	U	10	U	20		10	U	10	U	10	U	10	U	10	U	10	U	10		10	U
Hexavalent Chromium	18540-29-9	Alpha	SM 3500CR-D	µg/L	11	11	11	N/A		N/A		N/A		N/A		N/A		10	U	N/A		N/A		N/A		N/A		N/A		N/A	
Lead	7439-92-1	NHDPHS	EPA 200.8	µg/L	2.5	0.54	2.5	1.0	U	1.0	U	1.0	U	**19.3**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.4**		1.0	U
Manganese	7439-96-5	NHDPHS	EPA 200.8	µg/L	NA	NA	120	**442**		**961**		**2,230**		**634**		**428**		**501**		**449**		**1,190**		**2,640**		**2,640**		**507**		**384**	
Mercury	7439-97-6	NHDPHS	EPA 245.1	µg/L	0.77	0.77	0.026	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Thallium	7440-28-0	NHDPHS	EPA 200.8	µg/L	NA	40	0.8	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vanadium	7440-62-2	NHDPHS	EPA 200.8	µg/L	NA	NA	20	5.0	U	5.0	U	5.0	U	8.7		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_PZ-13		MHK_PZ-14		MHK_PZ-14 Duplicate (OW-131, OW-231, OW-331, OW-531)		MHK_PZ-15		EQUP BLANK (Water Level)		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
					Ecological Risk (Mini-Piezometers only) #			10/18/12		10/17/12		10/17/12		10/18/12		10/17/12		10/02/12		10/02/12		10/02/12		10/02/12	
								USEPA R1: 12100033 AB34889		USEPA R1: 12100027 AB34814		USEPA R1: 12100027 AB34815		USEPA R1: 12100033 AB34890		USEPA R1 12100027 AB34816 12100033 AB34894		USEPA R1: 12100027 AB34807		USEPA R1: 12100033 AB34893					
								NHDPHS: A209624008		NHDPHS: A209564006		NHDPHS: A209564007		NHDPHS: A209624009		NHDPHS: A209564008									
					Freshwater CCC		EPA R3	Alpha: L1218885-08		Alpha: L1218704-06		Alpha: L1218704-07		Alpha: L1218885-09		Alpha: L1218704-08									
					NRWQC	NHDES SWQC		EAI: 115273.08		EAI: 115227.06		EAI: 115227.07		EAI: 115273.09		EAI: 115227.08		EAI: 115226.07		EAI: 115227.09		EAI: 115273.1		EAI: 115278.03	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs								Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered	
Acetone (2-Propanone)	67-64-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.7		1.0	U	1.1		1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Acrylonitrile	107-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Benzene	71-43-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromobenzene	108-86-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromochloromethane	74-97-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromodichloromethane	75-27-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromoform	75-25-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Bromomethane	74-83-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butanone (2-) (MEK)	78-93-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butylbenzene (n-)	104-51-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butylbenzene (sec-)	135-98-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Butylbenzene (tert-)	98-06-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Carbon Disulfide	75-15-0	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Carbon Tetrachloride	56-23-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chlorobenzene	108-90-7	USEPA R1	$VOAMW	µg/L	NA	50 [1]	1.3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chloroethane	75-00-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chloroform	67-66-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chloromethane	74-87-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chlorotoluene (2-)	95-49-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Chlorotoluene (4-)	106-43-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromo-3-Chloropropane (1,2-)	96-12-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromochloromethane	124-48-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromoethane (1,2-)	106-93-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dibromomethane	74-95-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$VOAMW	µg/L	NA	763 [1]	0.7	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$VOAMW	µg/L	NA	763 [1]	26	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichlorodifluoromethane	75-71-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethane (1,1-)	75-34-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.2		1.7		1.0		1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethane (1,2-)	107-06-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethylene (1,1-)	75-35-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethylene (cis-1,2-)	156-59-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloroethylene (trans-1,2-)	156-60-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropane (1,2-)	78-87-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropane (1,3-)	142-28-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropane (2,2-)	594-20-7	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropene (1,1-)	563-58-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropene (cis-1,3-)	10061-01-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Dichloropropene (trans-1,3-)	10061-02-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
1,4-Dioxane	123-91-1	EAI	8260B-SIM	µg/L	NA	NA	NA	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Ethyl Ether	60-29-7	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Ethylbenzene	100-41-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Hexachlorobutadiene	87-68-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Hexanone (2-)	591-78-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Isopropylbenzene	98-82-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Isopropyltoluene (para-)	99-87-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Methylene Chloride	75-09-2	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Methyl-t-Butyl Ether	1634-04-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Naphthalene	91-20-3	USEPA R1	$VOAMW	µg/L	NA	620	1.1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Propylbenzene (n-)	103-65-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Styrene	100-42-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrachloroethane (1,1,1,2-)	630-20-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrachloroethane (1,1,2,2-)	79-34-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrachloroethylene	127-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Tetrahydrofuran	109-99-9	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Toluene	108-88-3	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichlorobenzene (1,2,3-)	87-61-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_PZ-13		MHK_PZ-14		MHK_PZ-14 Duplicate (OW-131, OW-231, OW-331, OW-531)		MHK_PZ-15		EQUP BLANK (Water Level)		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
					Ecological Risk (Mini-Piezometers only) #			10/18/12		10/17/12		10/17/12		10/18/12		10/17/12		10/02/12		10/02/12		10/02/12		10/02/12	
								USEPA R1: 12100033 AB34889		USEPA R1: 12100027 AB34814		USEPA R1: 12100027 AB34815		USEPA R1: 12100033 AB34890		USEPA R1 12100027 AB34816 12100033 AB34894		USEPA R1: 12100027 AB34807		USEPA R1: 12100033 AB34893					
								NHDPHS: A209624008		NHDPHS: A209564006		NHDPHS: A209564007		NHDPHS: A209624009		NHDPHS: A209564008									
					Freshwater CCC		EPA R3	Alpha: L1218885-08		Alpha: L1218704-06		Alpha: L1218704-07		Alpha: L1218885-09		Alpha: L1218704-08									
					NRWQC	NHDES SWQC		EAI: 115273.08		EAI: 115227.06		EAI: 115227.07		EAI: 115273.09		EAI: 115227.08		EAI: 115226.07		EAI: 115227.09		EAI: 115273.1		EAI: 115278.03	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloroethane (1,1,1-)	71-55-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloroethane (1,1,2-)	79-00-5	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloroethylene	79-01-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichlorofluoromethane	75-69-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trichloropropane (1,2,3-)	96-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trimethylbenzene (1,2,4-)	95-63-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Trimethylbenzene (1,3,5-)	108-67-8	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Vinyl Acetate	108-05-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Vinyl Chloride	75-01-4	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
Xylene (m,p-)	8-38-3/106-4	USEPA R1	$VOAMW	µg/L	–	–	–	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	UJ	N/A		N/A	
Xylene (o-)	95-47-6	USEPA R1	$VOAMW	µg/L	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	N/A		N/A	
SVOCs										Filtered		Filtered		Filtered		Unfiltered									
Acenaphthene	83-32-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Acenaphthylene	208-96-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Acetophenone	98-86-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Aniline	62-53-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Anthracene	120-12-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Aramite	140-57-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Azobenzene	103-33-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzidine	92-87-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(a)anthracene	56-55-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(a)pyrene	50-32-8	USEPA R1	$BNAW	µg/L	NA	NA	0.015	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(b)fluoranthene	205-99-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(g,h,i)perylene	191-24-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzo(k)fluoranthene	207-08-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Benzoic acid	65-85-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		5.0	U	5.0	U	20	U	5.0	U	N/A		N/A		N/A		N/A	
Benzyl alcohol	100-51-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
bis(-2-Chloroethoxy)methane	111-91-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Bis(2-Chloroethyl)ether	111-44-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Bis(2-ethylhexyl)phthalate	117-81-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Bromophenyl-phenylether (4-)	101-55-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Butylbenzylphthalate	85-68-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Carbazole	86-74-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chloro-3-methylphenol (4-)	59-50-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chloroaniline (4-)	106-47-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chlorobenzilate	510-15-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chloronaphthalene (2-)	91-58-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chlorophenol (2-)	95-57-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Chrysene	218-01-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dibenz(a,h)anthracene	53-70-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dibenzofuran	132-64-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$BNAW	µg/L	NA	763 [1]	0.7	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$BNAW	µg/L	NA	763 [1]	26	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorobenzidine (3,3'-)	91-94-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorophenol (2,4-)	120-83-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dichlorophenol (2,6-)	87-65-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Diethylphthalate	84-66-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dimethyl phthalate	131-11-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dimethylphenol (2,4-)	105-67-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Di-n-butylphthalate	84-74-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Dinitrobenzene (1,3-)	99-65-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	5.0	U	2.5	U	N/A		N/A		N/A		N/A	
Dinitrophenol (2,4-)	51-28-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		5.0	U	5.0	U	10	U	5.0	U	N/A		N/A		N/A		N/A	
Dinitrotoluene (2,4-)	121-14-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinitrotoluene (2,6-)	606-20-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Di-n-octyl phthalate	117-84-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Dinoseb	88-85-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Ethyl methanesulfonate	62-50-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Laboratory	Method	Units	Project Action Limits (PALs)			MHK_PZ-13		MHK_PZ-14		MHK_PZ-14 Duplicate (OW-131, OW-231, OW-331, OW-531)		MHK_PZ-15		EQUP BLANK (Water Level)		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
					Ecological Risk (Mini-Piezometers only) #			10/18/12		10/17/12		10/17/12		10/18/12		10/17/12		10/02/12		10/02/12		10/02/12		10/02/12	
								USEPA R1: 12100033 AB34889		USEPA R1: 12100027 AB34814		USEPA R1: 12100027 AB34815		USEPA R1: 12100033 AB34890		USEPA R1 12100027 AB34816 12100033 AB34894		USEPA R1: 12100027 AB34807		USEPA R1: 12100033 AB34893					
								NHDPHS: A209624008		NHDPHS: A209564006		NHDPHS: A209564007		NHDPHS: A209624009		NHDPHS: A209564008									
					Freshwater CCC		EPA R3	Alpha: L1218885-08		Alpha: L1218704-06		Alpha: L1218704-07		Alpha: L1218885-09		Alpha: L1218704-08									
					NRWQC	NHDES SWQC		EAI: 115273.08		EAI: 115227.06		EAI: 115227.07		EAI: 115273.09		EAI: 115227.08		EAI: 115226.07		EAI: 115227.09		EAI: 115273.1		EAI: 115278.03	
								Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Fluoranthene	206-44-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Fluorene	86-73-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachlorobenzene	118-74-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachlorobutadiene	87-68-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachlorocyclopentadiene	77-47-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	5.0	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachloroethane	67-72-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Hexachloropropene	1888-71-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Isodrin	465-73-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Isophorone	78-59-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Isosafrole	120-58-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Kepone	143-50-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	UJ	2.5	U	N/A		N/A		N/A		N/A	
Methyl methanesulfonate	66-27-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylcholanthrene (3-)	56-49-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylnaphthalene (1-)	90-12-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylnaphthalene (2-)	91-57-6	USEPA R1	$BNAW	µg/L	NA	NA	4.7	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylphenol (2-)	95-48-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Methylphenol (3,4-)	108-39-4 106-44-5	USEPA R1	$BNAW	µg/L	NA	NA	543	N/A		5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	
Naphthalene	91-20-3	USEPA R1	$BNAW	µg/L	NA	620	1.1	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Naphthoquinone (1,4-)	130-15-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroaniline (2-)	88-74-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroaniline (3-)	99-09-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroaniline (4-)	100-01-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrobenzene	98-95-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrophenol (2-)	88-75-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrophenol (4-)	100-02-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	5.0	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroquinoline-1-oxide (4-)	56-57-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		10	U	10	U	10	U	10	U	N/A		N/A		N/A		N/A	
Nitrosodimethylamine (N-)	62-75-9	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitroso-di-n-propylamine (N-)	621-64-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Nitrosodiphenylamine (N-)	86-30-6	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pentachlorobenzene	608-93-5	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pentachloronitrobenzene	82-68-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pentachlorophenol	87-86-5	USEPA R1	$BNAW	µg/L	15	4.05	0.5	N/A		2.5	U	2.5	U	5.0	U	2.5	U	N/A		N/A		N/A		N/A	
Phenacetin	62-44-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Phenanthrene	85-01-8	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Phenol	108-95-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pyrene	129-00-0	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Pyridine	110-86-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Safrole	94-59-7	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Trichlorophenol (2,4,5-)	95-95-4	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Trichlorophenol (2,4,6-)	88-06-2	USEPA R1	$BNAW	µg/L	–	–	–	N/A		2.5	U	2.5	U	2.5	U	2.5	U	N/A		N/A		N/A		N/A	
Metals								Filtered		Filtered		Filtered		Filtered		Unfiltered									
Antimony	7440-36-0	NHDPHS	EPA 200.8	µg/L	NA	1,600	30	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	N/A		N/A		N/A		N/A	
Arsenic	7440-38-2	NHDPHS	EPA 200.8	µg/L	150	150	5	**305**		1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A		N/A		N/A	
Barium	7440-39-3	NHDPHS	EPA 200.8	µg/L	NA	NA	4	**60.1**		**16.7**		**17.3**		**17.9**		5.0	U	N/A		N/A		N/A		N/A	
Cadmium	7440-43-9	NHDPHS	EPA 200.8	µg/L	0.25	0.8	0.25	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	N/A		N/A		N/A		N/A	
Chromium	7440-47-3	Alpha	EPA 6010C	µg/L	74 (III) *	24 (III) *	85 (total) 74 (III) *	10	U	10	U	10	U	10	U	10	U	N/A		N/A		N/A		N/A	
Hexavalent Chromium	18540-29-9	Alpha	SM 3500CR-D	µg/L	11	11	11	N/A		10	U	10	U	N/A		10	U	N/A		N/A		N/A		N/A	
Lead	7439-92-1	NHDPHS	EPA 200.8	µg/L	2.5	0.54	2.5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A		N/A		N/A	
Manganese	7439-96-5	NHDPHS	EPA 200.8	µg/L	NA	NA	120	**2,250**		**761**		**763**		**797**		5.0	U	N/A		N/A		N/A		N/A	
Mercury	7439-97-6	NHDPHS	EPA 245.1	µg/L	0.77	0.77	0.026	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	N/A		N/A		N/A		N/A	
Thallium	7440-28-0	NHDPHS	EPA 200.8	µg/L	NA	40	0.8	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A		N/A		N/A	
Vanadium	7440-62-2	NHDPHS	EPA 200.8	µg/L	NA	NA	20	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A		N/A		N/A		N/A	

TABLE 1b
Summary of Analytical Results – Groundwater from Mini-Piezometers
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Notes:
1. Samples were collected by Sanborn Head on the dates indicated and were analyzed by the laboratories and methods indicated. Refer to the analytical laboratory reports for full method references. Laboratory report numbers and sample numbers are presented in the header beneath the sample collection dates.
"USEPA R1" indicates the United States Environmental Protection Agency Region 1 New England Region Laboratory in North Chelmsford, Massachusetts.
"NHDPHS" indicates the New Hampshire Division of Public Health Services laboratory in Concord, New Hampshire.
"Alpha" indicates Alpha Analytical of Westboro, Massachusetts.
"EAI" indicates Eastern Analytical, Inc. of Concord, New Hampshire.
2. NHDPHS data were validated by NHDPHS personnel using USEPA Region 1 Modified Tier 1.
USEPA R1 data were reviewed by USEPA R1 personnel in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.
Alpha and EAI data were validated by USEPA personnel using Stage 2A Manual Validation.
3. "U" indicates the analyte was not detected above the indicated laboratory reporting limit.
"J" indicates an estimated value. Refer to the data validation report for further information.
"N/A" indicates the sample was not analyzed for this parameter.
4. Only analytes which were detected or with an established Project Action Limit are displayed. Refer to the analytical laboratory reports and/or data validation reports for the full list of analytes.
1,4-Dioxane was not detected in groundwater samples from mini-piezometers and does not have a PAL listed herein; however, the results are included because it is considered an "emerging contaminant," and has a PAL for groundwater samples from monitoring wells.
5. Concentrations are presented in micrograms per liter (µg/l) which are equivalent to parts per billion (ppb).
6. Project Action Limits (PALs) are from Sanborn Head's "Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, New Hampshire, NHDES Site No. 198404002, USEPA QA Tracking # 12121," dated September 2012. PALs provided to Sanborn Head by NHDES on July 19, 2012. The following notes apply to the PALs:
Freshwater CCC = Freshwater Criterion Continuous Concentration
NRWQC = National Recommended Water Quality Criteria (http://water.epa.gov/scitech/swguidance/standards/current/index.cfm)
NHDES SWQC = New Hampshire Surface Water Quality Criteria for Toxic Substances as defined in Env-Ws 1703.21 and contained in Table 1703.1 Surface Water Quality Criteria for Toxic Substances (May 2008) (http://des.nh.gov/organization/commissioner/legal/rules/documents/env-wq1700.pdf)
EPA R3 = EPA Region 3 Freshwater Screening Benchmarks (http://www.epa.gov/reg3hwmd/risk/eco/btag/sbv/fw/screenbench.htm)
[1] The values listed are for totals where there are more than one isomer/compound.
"–" indicates PALs were not established for this analyte.
NA = not applicable
Certain metals (arsenic, cadmium, chromium, hexavalent chromium, lead, mercury) have NRWQC Freshwater CCC values expressed in terms of the dissolved metal in the water column. See "Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria (PDF)," October 1, 1993, by Martha G. Prothro, Acting Assistant Administrator for Water (http://water.epa.gov/scitech/swguidance/standards/current/upload/1999_11_10_criteria_metalsinterpret.pdf), available on NSCEP's web site (http://www.epa.gov/nscep/) and 40CFR§131.36(b)(1). Conversion Factors applied in the table can be found in Appendix A to the Preamble – Conversion Factors for Dissolved Metals.
Certain metals (cadmium, chromium, lead) have hardness dependent NRWQC Freshwater CCC values. The values given here correspond to a hardness of 100 mg/L. Criteria values for other hardness levels may be calculated per the equation presented in the criteria document.
Certain metals (arsenic, cadmium, chromium, hexavalent chromium, lead, mercury) have NHDES SWQC Freshwater CCC values expressed as a function of the water effect ratio (WER) as defined in 40 CFR 131.36(c). The values displayed in Table 1703.1 correspond to a WER of 1.0. To determine metals criteria for different WER's, the procedures described in the EPA publication "Interim Guidance on Determination and Use of Water-Effect Ratios for Metals" (EPA-823-B-94-001) shall be used.
Certain metals (cadmium, chromium, lead) have hardness dependent NHDES SWQC Freshwater CCC values. The values given here correspond to a hardness of 25 mg/L. To calculate aquatic life criteria for other hardness values between 25 mg/l and 400 mg/l, the equations shown in Env-Wq 1703.24 shall be used. For hardness less than 25 mg/l, a hardness of 25 mg/l shall be used in the equations. For hardness values greater than 400 mg/l, a hardness of 400 mg/l shall be used in the equations.
Certain metals (arsenic, chromium, hexavalent chromium, mercury) have NHDES SWQC Freshwater CCC values based on dissolved metals as shown in Table 1703.2. To calculate dissolved freshwater criteria for hardness dependent metals at hardness(s) greater than 25 mg/l, Table 1703.3 shall be used to calculate the total recoverable metal and Table 1703.2 shall be used to convert the total recoverable metal to a dissolved metal.
7. Gray font indicates not detected or not analyzed.
Black font indicates detected at a concentration below the lowest PAL, or detected parameter for which no PAL is established.
Bold black font indicates detected concentration that exceeds the lowest PAL.
8. Yellow shading indicates the lowest applicable PAL.
Blue shading indicates the detected concentration exceeds the lowest PAL.
Orange shading indicates the reporting limit exceeds the lowest PAL.
9. "*" Indicates as part of this sampling event, samples were analyzed for total chromium, with a subset of samples also analyzed for hexavalent chromium. Chromium results are herein compared to the indicated PAL(s).
10. "#" If an ecological risk PAL is exceeded in a mini-piezometer sample, a dilution analysis to estimate the discharge concentration to the Nashua River may be performed.

TABLE 2
Summary of Analytical Results – Surface Water
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Laboratory	Method	Units	Project Action Limits (PALs)					MHK_SW-01		MHK_SW-02		MHK_SW-02 Duplicate (OW-141, OW-241, OW-341)		TRIP BLANK	
					Human Health Risk		Ecological Risk			10/17/12		10/17/12		10/17/12		10/02/12	
										USEPA R1: 12100027 AB34817		USEPA R1: 12100027 AB34818		USEPA R1: 12100027 AB34819		USEPA R1: 12100027 AB34807	
					Water and Organism		Freshwater CCC		EPA R3	NHDPHS: A209574001		NHDPHS: A209574002		NHDPHS: A209574003			
					NRWQC	NHDES SWQC	NRWQC	NHDES SWQC		Alpha: L1218707-01		Alpha: L1218707-02		Alpha: L1218707-03			
										Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																	
Acetone (2-Propanone)	67-64-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	23		3.2		2.8		1.0	U
Acrylonitrile	107-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Benzene	71-43-2	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Bromobenzene	108-86-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	74-97-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	75-27-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	75-25-2	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	74-83-9	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Butanone (2-) (MEK)	78-93-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	6.7		1.0		1.1		1.0	U
Butylbenzene (n-)	104-51-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Butylbenzene (sec-)	135-98-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Butylbenzene (tert-)	98-06-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	75-15-0	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	108-90-7	USEPA R1	$VOAMW	µg/L	130	20	NA	50 [1]	1.3	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	75-00-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	67-66-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	74-87-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Chlorotoluene (2-)	95-49-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Chlorotoluene (4-)	106-43-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	124-48-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dibromoethane (1,2-)	106-93-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	74-95-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$VOAMW	µg/L	420	2,700	NA	763 [1]	0.7	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$VOAMW	µg/L	63	400	NA	763 [1]	26	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorodifluoromethane	75-71-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethane (1,1-)	75-34-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethane (1,2-)	107-06-2	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethylene (1,1-)	75-35-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethylene (cis-1,2-)	156-59-2	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloroethylene (trans-1,2-)	156-60-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropane (1,2-)	78-87-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropane (1,3-)	142-28-9	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropane (2,2-)	594-20-7	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropene (1,1-)	563-58-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropene (cis-1,3-)	10061-01-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Dichloropropene (trans-1,3-)	10061-02-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Ethyl Ether	60-29-7	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	100-41-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Hexachlorobutadiene	87-68-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Hexanone (2-)	591-78-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Isopropylbenzene	98-82-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Isopropyltoluene (para-)	99-87-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Methylene Chloride	75-09-2	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Methyl-t-Butyl Ether	1634-04-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Naphthalene	91-20-3	USEPA R1	$VOAMW	µg/L	NA	NA	NA	620	1.1	1.0	U	1.0	U	1.0	U	1.0	U
Propylbenzene (n-)	103-65-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	100-42-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethane (1,1,1,2-)	630-20-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethane (1,1,2,2-)	79-34-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethylene	127-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Tetrahydrofuran	109-99-9	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	108-88-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorobenzene (1,2,3-)	87-61-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethane (1,1,1-)	71-55-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethane (1,1,2-)	79-00-5	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethylene	79-01-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	75-69-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trichloropropane (1,2,3-)	96-18-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trimethylbenzene (1,2,4-)	95-63-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Trimethylbenzene (1,3,5-)	108-67-8	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl Acetate	108-05-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl Chloride	75-01-4	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
Xylene (m,p-)	108-38-3/106-42-3	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	2.0	U	2.0	U	2.0	U	2.0	U
Xylene (o-)	95-47-6	USEPA R1	$VOAMW	µg/L	–	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U
SVOCs																	
Acenaphthene	83-32-9	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Acenaphthylene	208-96-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Acetophenone	98-86-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Aniline	62-53-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Anthracene	120-12-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Aramite	140-57-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Azobenzene	103-33-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Benzidine	92-87-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Benzo(a)anthracene	56-55-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Benzo(a)pyrene	50-32-8	USEPA R1	$BNAW	µg/L	0.0038	0.0044	NA	NA	0.015	2.5	U	2.5	U	2.5	U	N/A	
Benzo(b)fluoranthene	205-99-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Benzo(g,h,i)perylene	191-24-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Benzo(k)fluoranthene	207-08-9	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Benzoic acid	65-85-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	34		18		18		N/A	
Benzyl alcohol	100-51-6	USEPA R1	$BNAW	µg/L	–	–	–	–	–	160		9.4		9.9		N/A	
Bis(-2-Chloroethoxy)methane	111-91-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Bis(2-Chloroethyl)ether	111-44-4	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Bis(2-ethylhexyl)phthalate	117-81-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	5.6		2.5	U	2.5	U	N/A	
Bromophenyl-phenylether (4-)	101-55-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Butylbenzylphthalate	85-68-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Carbazole	86-74-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chloro-3-methylphenol (4-)	59-50-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chloroaniline (4-)	106-47-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chlorobenzilate	510-15-6	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chloronaphthalene (2-)	91-58-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chlorophenol (2-)	95-57-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Chrysene	218-01-9	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dibenz(a,h)anthracene	53-70-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dibenzofuran	132-64-9	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dichlorobenzene (1,2-)	95-50-1	USEPA R1	$BNAW	µg/L	420	2,700	NA	763 [1]	0.7	2.5	U	2.5	U	2.5	U	N/A	
Dichlorobenzene (1,3-)	541-73-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dichlorobenzene (1,4-)	106-46-7	USEPA R1	$BNAW	µg/L	63	400	NA	763 [1]	26	2.5	U	2.5	U	2.5	U	N/A	
Dichlorobenzidine (3,3'-)	91-94-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dichlorophenol (2,4-)	120-83-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dichlorophenol (2,6-)	87-65-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Diethylphthalate	84-66-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dimethyl phthalate	131-11-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dimethylphenol (2,4-)	105-67-9	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Di-n-butylphthalate	84-74-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	

TABLE 2
Summary of Analytical Results – Surface Water
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Laboratory	Method	Units	Project Action Limits (PALs)					MHK_SW-01		MHK_SW-02		MHK_SW-02 Duplicate (OW-141, OW-241, OW-341)		TRIP BLANK	
					Human Health Risk		Ecological Risk			10/17/12		10/17/12		10/17/12		10/02/12	
										USEPA R1: 12100027 AB34817		USEPA R1: 12100027 AB34818		USEPA R1: 12100027 AB34819		USEPA R1: 12100027 AB34807	
					Water and Organism		Freshwater CCC		EPA R3	NHDPHS: A209574001		NHDPHS: A209574002		NHDPHS: A209574003			
					NRWQC	NHDES SWQC	NRWQC	NHDES SWQC		Alpha: L1218707-01		Alpha: L1218707-02		Alpha: L1218707-03			
										Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Dinitro-2-methylphenol (4,6-)	534-52-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	5.0	U	5.0	U	5.0	U	N/A	
Dinitrobenzene (1,3-)	99-65-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dinitrophenol (2,4-)	51-28-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	5.0	U	5.0	U	5.0	U	N/A	
Dinitrotoluene (2,4-)	121-14-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dinitrotoluene (2,6-)	606-20-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Di-n-octyl phthalate	117-84-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Dinoseb	88-85-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	5.0	U	5.0	U	5.0	U	N/A	
Ethyl methanesulfonate	62-50-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Fluoranthene	206-44-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Fluorene	86-73-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Hexachlorobenzene	118-74-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Hexachlorobutadiene	87-68-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Hexachlorocyclopentadiene	77-47-4	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Hexachloroethane	67-72-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Hexachloropropene	1888-71-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Isodrin	465-73-6	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Isophorone	78-59-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Isosafrole	120-58-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Kepone	143-50-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Methyl methanesulfonate	66-27-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Methylcholanthrene (3-)	56-49-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Methylnaphthalene (1-)	90-12-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Methylnaphthalene (2-)	91-57-6	USEPA R1	$BNAW	µg/L	NA	NA	NA	NA	4.7	2.5	U	2.5	U	2.5	U	N/A	
Methylphenol (2-)	95-48-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	USEPA R1	$BNAW	µg/L	NA	NA	NA	NA	543	16.4		5.0	U	5.0	U	N/A	
Naphthalene	91-20-3	USEPA R1	$BNAW	µg/L	NA	NA	NA	620	1.1	2.5	U	2.5	U	2.5	U	N/A	
Naphthoquinone (1,4-)	130-15-4	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitroaniline (2-)	88-74-4	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitroaniline (3-)	99-09-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitroaniline (4-)	100-01-6	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitrobenzene	98-95-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitrophenol (2-)	88-75-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitrophenol (4-)	100-02-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitroquinoline-1-oxide (4-)	56-57-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	10	U	10	U	10	U	N/A	
Nitrosodimethylamine (N-)	62-75-9	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitroso-di-n-propylamine (N-)	621-64-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Nitrosodiphenylamine (N-)	86-30-6	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
oxybis(1-chloropropane) (2,2'-)	108-60-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Pentachlorobenzene	608-93-5	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Pentachloronitrobenzene	82-68-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Pentachlorophenol	87-86-5	USEPA R1	$BNAW	µg/L	0.27	0.28	15	4.05	0.5	2.5	U	2.5	U	2.5	U	N/A	
Phenacetin	62-44-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Phenanthrene	85-01-8	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Phenol	108-95-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	5.3		2.5	U	2.5	U	N/A	
Pyrene	129-00-0	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Pyridine	110-86-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Safrole	94-59-7	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Trichlorobenzene (1,2,4-)	120-82-1	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Trichlorophenol (2,4,5-)	95-95-4	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Trichlorophenol (2,4,6-)	88-06-2	USEPA R1	$BNAW	µg/L	–	–	–	–	–	2.5	U	2.5	U	2.5	U	N/A	
Metals																	
Antimony	7440-36-0	NHDPHS	EPA 200.8	µg/L	NA	14	NA	1,600	30	3.9		3.0	U	3.0	U	N/A	
Arsenic	7440-38-2	NHDPHS	EPA 200.8	µg/L	0.018	0.018	150	150	5	**40.9**		**3.2**		**3.0**		N/A	
Barium	7440-39-3	NHDPHS	EPA 200.8	µg/L	1,000	1,000	NA	NA	4	**161**		**17.9**		**17.1**		N/A	
Cadmium	7440-43-9	NHDPHS	EPA 200.8	µg/L	NA	NA	0.25	0.8	0.25	**3.0**		2.0	U	2.0	U	N/A	
Chromium	7440-47-3	Alpha	EPA 6010C	µg/L	NA	NA	74 (III) *	24 (III) *	85 (total) 74 (III) *	20	J	10	U	10	U	N/A	
Hexavalent Chromium	18540-29-9	Alpha	SM 3500CR-D	µg/L	NA	1	11	11	11	N/A		10	U	10	U	N/A	
Lead	7439-92-1	NHDPHS	EPA 200.8	µg/L	NA	NA	2.5	0.54	2.5	**35.4**		1.0	U	1.0	U	N/A	
Manganese	7439-96-5	NHDPHS	EPA 200.8	µg/L	NA	50	NA	NA	120	**3,190**		**601**		**593**		N/A	
Mercury	7439-97-6	NHDPHS	EPA 245.1	µg/L	0.3	0.05	0.77	0.77	0.026	0.5	U	0.5	U	0.5	U	N/A	
Thallium	7440-28-0	NHDPHS	EPA 200.8	µg/L	0.24	1.7	NA	40	0.8	1.0	U	1.0	U	1.0	U	N/A	
Vanadium	7440-62-2	NHDPHS	EPA 200.8	µg/L	NA	NA	NA	NA	20	11.4		5.0	U	5.0	U	N/A	
Hardness	–	NHDPHS	EPA 200.7	µg/L	–	–	–	–	–	58,170		44,260		45,220		N/A	

Notes:
1. Samples were collected by Sanborn Head on the dates indicated and were analyzed by the laboratories and methods indicated. Refer to the analytical laboratory reports for full method references. Laboratory report numbers and sample numbers are presented in the header beneath the sample collection dates.
"USEPA R1" indicates the United States Environmental Protection Agency Region 1 New England Region Laboratory in North Chelmsford, Massachusetts.
"NHDPHS" indicates the New Hampshire Division of Public Health Services laboratory in Concord, New Hampshire.
"Alpha" indicates Alpha Analytical of Westboro, Massachusetts.
2. NHDPHS data were validated by NHDPHS personnel using USEPA Region 1 Modified Tier 1.
USEPA R1 data were reviewed by USEPA R1 personnel in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.
Alpha data were validated by USEPA personnel using Stage 2A Manual Validation.
3. "U" indicates the analyte was not detected above the indicated laboratory reporting limit.
"J" indicates an estimated value. Refer to the data validation report for further information.
"N/A" indicates the sample was not analyzed for this parameter.
4. Only analytes which were detected or with an established Project Action Limit are displayed. Refer to the analytical laboratory reports and/or data validation reports for the full list of analytes.
5. Concentrations are presented in micrograms per liter (µg/l) which are equivalent to parts per billion (ppb).
6. Project Action Limits (PALs) are from Sanborn Head's "Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, New Hampshire, NHDES Site No. 198404002, USEPA QA Tracking # 12121," dated September 2012. PALs provided to Sanborn Head by NHDES on July 19, 2012. The following notes apply to the PALs:
Water & Fish = Consumption of water and aquatic organisms
Freshwater CCC = Freshwater Criterion Continuous Concentration
NRWQC = National Recommended Water Quality Criteria (http://water.epa.gov/scitech/swguidance/standards/current/index.cfm)
NHDES SWQC = New Hampshire Surface Water Quality Criteria for Toxic Substances as defined in Env-Ws 1703.21 and contained in Table 1703.1 Surface Water Quality Criteria for Toxic Substances (May 2008) (http://des.nh.gov/organization/commissioner/legal/rules/documents/env-wq1700.pdf)
EPA R3 = EPA Region 3 Freshwater Screening Benchmarks (http://www.epa.gov/reg3hwmd/risk/eco/btag/sbv/fw/screenbench.htm)
[1] The values listed are for totals where there are more than one isomer/compound.
"–" indicates PALs were not established for this analyte.
NA = not applicable
Certain metals (arsenic, cadmium, chromium, hexavalent chromium, lead, mercury) have NRWQC Freshwater CCC values expressed in terms of the dissolved metal in the water column. See "Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria (PDF)," October 1, 1993, by Martha G. Prothro, Acting Assistant Administrator for Water (http://water.epa.gov/scitech/swguidance/standards/current/upload/1999_11_10_criteria_metalsinterpret.pdf), available on NSCEP's web site (http://www.epa.gov/nscep/) and 40CFR§131.36(b)(1). Conversion Factors applied in the table can be found in Appendix A to the Preamble – Conversion Factors for Dissolved Metals.
Certain metals (cadmium, chromium, lead) have hardness dependent NRWQC Freshwater CCC values. The values given here correspond to a hardness of 100 mg/L. Criteria values for other hardness levels may be calculated per the equation presented in the criteria document.
Certain metals (arsenic, cadmium, chromium, hexavalent chromium, lead, mercury) have NHDES SWQC Freshwater CCC values expressed as a function of the water effect ratio (WER) as defined in 40 CFR 131.36(c). The values displayed in Table 1703.1 correspond to a WER of 1.0. To determine metals criteria for different WER's, the procedures described in the EPA publication "Interim Guidance on Determination and Use of Water-Effect Ratios for Metals" (EPA-823-B-94-001) shall be used.
Certain metals (cadmium, chromium, lead) have hardness dependent NHDES SWQC Freshwater CCC values. The values given here correspond to a hardness of 25 mg/L. To calculate aquatic life criteria for other hardness values between 25 mg/l and 400 mg/l, the equations shown in Env-Wq 1703.24 shall be used. For hardness less than 25 mg/l, a hardness of 25 mg/l shall be used in the equations. For hardness values greater than 400 mg/l, a hardness of 400 mg/l shall be used in the equations.
Certain metals (arsenic, chromium, hexavalent chromium, mercury) have NHDES SWQC Freshwater CCC values based on dissolved metals as shown in Table 1703.2. To calculate dissolved freshwater criteria for hardness dependent metals at hardness(s) greater than 25 mg/l, Table 1703.3 shall be used to calculate the total recoverable metal and Table 1703.2 shall be used to convert the total recoverable metal to a dissolved metal.
7. Gray font indicates not detected or not analyzed.
Black font indicates detected at a concentration below the lowest PAL, or detected parameter for which no PAL is established.
Bold black font indicates detected concentration that exceeds the lowest PAL.
8. Yellow shading indicates the lowest applicable PAL.
Blue shading indicates the detected concentration exceeds the lowest PAL.
Orange shading indicates the reporting limit exceeds the lowest PAL.
9. "*" Indicates as part of this sampling event, samples were analyzed for total chromium, with a subset of samples also analyzed for hexavalent chromium. Chromium results are herein compared to the indicated PAL(s).

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-101_0-.5		MHK_SS-102_0-.5		MHK_SS-103_0-.5		MHK_SS-104_0-.5		MHK_SS-105_0-.5		MHK_SS-106_0-.5		MHK_SS-107_0-.5		MHK_SS-107_1-2		MHK_SS-108_0-.5		MHK_SS-109_0-.5		MHK_SS-110_0-.5		MHK_SS-110_1-2	
					Human Health Risk		Ecological Risk		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/22/12		10/22/12	
									USEPA R1: 12100043 AB35043		USEPA R1: 12100043 AB35044		USEPA R1: 12100043 AB35045		USEPA R1: 12100043 AB35046		USEPA R1: 12100043 AB35047		USEPA R1: 12100043 AB35048		USEPA R1: 12100037 AB34953		USEPA R1: 12100037 AB34954		USEPA R1: 12100043 AB35049		USEPA R1: 12100043 AB35050		USEPA R1: 12100037 AB34955		USEPA R1: 12100037 AB34956	
									NHDPHS: A209764001		NHDPHS: A209764002		NHDPHS: A209764003		NHDPHS: A209764004		NHDPHS: A209764005		NHDPHS: A209764006		NHDPHS: A209694001		NHDPHS: A209694002		NHDPHS: A209764007		NHDPHS: A209764008		NHDPHS: A209694003		NHDPHS: A209694004	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219354-01		Alpha: L1219354-02		Alpha: L1219354-03		Alpha: L1219354-04		Alpha: L1219354-05		Alpha: L1219354-06		Alpha: L1219108-01		Alpha: L1219108-02		Alpha: L1219354-07		Alpha: L1219354-08		Alpha: L1219108-03		Alpha: L1219108-04	
																					Contract: C0101		Contract: C0102						Contract: C0103		Contract: C0104	
																					Contract: F0101		Contract: F0102						Contract: F0103		Contract: F0104	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	N/A		N/A		0.12	U	0.11	U
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.058	U	0.059	U	N/A		N/A		0.059	U	0.054	U
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-101_0-.5		MHK_SS-102_0-.5		MHK_SS-103_0-.5		MHK_SS-104_0-.5		MHK_SS-105_0-.5		MHK_SS-106_0-.5		MHK_SS-107_0-.5		MHK_SS-107_1-2		MHK_SS-108_0-.5		MHK_SS-109_0-.5		MHK_SS-110_0-.5		MHK_SS-110_1-2	
					Human Health Risk		Ecological Risk		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/22/12		10/22/12	
									USEPA R1: 12100043 AB35043		USEPA R1: 12100043 AB35044		USEPA R1: 12100043 AB35045		USEPA R1: 12100043 AB35046		USEPA R1: 12100043 AB35047		USEPA R1: 12100043 AB35048		USEPA R1: 12100037 AB34953		USEPA R1: 12100037 AB34954		USEPA R1: 12100043 AB35049		USEPA R1: 12100043 AB35050		USEPA R1: 12100037 AB34955		USEPA R1: 12100037 AB34956	
									NHDPHS: A209764001		NHDPHS: A209764002		NHDPHS: A209764003		NHDPHS: A209764004		NHDPHS: A209764005		NHDPHS: A209764006		NHDPHS: A209694001		NHDPHS: A209694002		NHDPHS: A209764007		NHDPHS: A209764008		NHDPHS: A209694003		NHDPHS: A209694004	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219354-01		Alpha: L1219354-02		Alpha: L1219354-03		Alpha: L1219354-04		Alpha: L1219354-05		Alpha: L1219354-06		Alpha: L1219108-01		Alpha: L1219108-02		Alpha: L1219354-07		Alpha: L1219354-08		Alpha: L1219108-03		Alpha: L1219108-04	
																					Contract: C0101		Contract: C0102						Contract: C0103		Contract: C0104	
																					Contract: F0101		Contract: F0102						Contract: F0103		Contract: F0104	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.22	U	0.22	U	N/A		N/A		0.21	U	0.21	U
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.22	U	0.22	U	N/A		N/A		0.21	U	0.21	U
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.22	U	0.22	U	N/A		N/A		0.21	U	0.21	U
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.22	U	0.22	U	N/A		N/A		0.21	U	0.21	U
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	N/A		N/A		N/A		N/A		N/A		N/A		0.22	U	0.22	U	N/A		N/A		0.21	U	0.21	U
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.44	U	0.44	U	N/A		N/A		0.43	U	0.43	U
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-101_0-.5		MHK_SS-102_0-.5		MHK_SS-103_0-.5		MHK_SS-104_0-.5		MHK_SS-105_0-.5		MHK_SS-106_0-.5		MHK_SS-107_0-.5		MHK_SS-107_1-2		MHK_SS-108_0-.5		MHK_SS-109_0-.5		MHK_SS-110_0-.5		MHK_SS-110_1-2	
					Human Health Risk		Ecological Risk		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/22/12		10/22/12	
									USEPA R1: 12100043 AB35043		USEPA R1: 12100043 AB35044		USEPA R1: 12100043 AB35045		USEPA R1: 12100043 AB35046		USEPA R1: 12100043 AB35047		USEPA R1: 12100043 AB35048		USEPA R1: 12100037 AB34953		USEPA R1: 12100037 AB34954		USEPA R1: 12100043 AB35049		USEPA R1: 12100043 AB35050		USEPA R1: 12100037 AB34955		USEPA R1: 12100037 AB34956	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	NHDPHS: A209764001		NHDPHS: A209764002		NHDPHS: A209764003		NHDPHS: A209764004		NHDPHS: A209764005		NHDPHS: A209764006		NHDPHS: A209694001		NHDPHS: A209694002		NHDPHS: A209764007		NHDPHS: A209764008		NHDPHS: A209694003		NHDPHS: A209694004	
									Alpha: L1219354-01		Alpha: L1219354-02		Alpha: L1219354-03		Alpha: L1219354-04		Alpha: L1219354-05		Alpha: L1219354-06		Alpha: L1219108-01		Alpha: L1219108-02		Alpha: L1219354-07		Alpha: L1219354-08		Alpha: L1219108-03		Alpha: L1219108-04	
																					Contract: C0101		Contract: C0102						Contract: C0103		Contract: C0104	
																					Contract: F0101		Contract: F0102						Contract: F0103		Contract: F0104	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	N/A		N/A		0.11	U	0.11	U
Metals																																
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142	**0.297**		0.197	U	0.217	U	0.243	U	0.243	U	0.198	U	0.219	U	0.228	U	0.232	U	0.239	U	0.230	U	0.223	U
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7	**6.77**		**5.38**		**6.75**		**9.73**		**8.01**		**7.49**		**5.38**		**5.85**		**9.00**		**7.44**		**5.17**		**5.48**	
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04	**21.0**		**33.8**		**26.9**		**31.2**		**33.4**		**25.5**		**38.1**		**27.8**		**31.1**		**32.6**		**30.0**		**22.3**	
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222	**0.9645**		**0.2132**		**0.6410**		**0.6473**		**0.6482**		**0.8985**		0.4377	U	0.4567	U	**0.3872**		**0.3745**		**0.7805**		0.4369	U
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *	**480**		16		21		26		25		**43**		18		13		22		18		20		12	
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537	**38.3**		**35.4**		**33.2**		**41.8**		**37.4**		**50.5**		**13.2**		**3.87**		**16.7**		**21.9**		**20.6**		**2.89**	
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220	85.3		**509**		**263**		**280**		**433**		156		**541**		177		**384**		**517**		**505**		118	
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1	**0.3515**		0.0887		**0.3043**		**0.1848**		**0.2047**		**0.2610**		0.0973		0.0560	U	**0.1226**		**0.1404**		0.0599	U	0.0512	U
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569	0.184	U	0.197	U	0.217	U	0.243	U	0.243	U	0.198	U	0.219	U	0.228	U	0.232	U	0.239	U	0.230	U	0.223	U
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59	**7.27**		**11.0**		**17.5**		**21.9**		**21.5**		**19.8**		**13.1**		**10.3**		**15.4**		**20.3**		**12.4**		**8.73**	
PCBs																																
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		23.5	J	2.3	U	N/A		N/A		57.0	J	2.1	U
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		2.2	U	2.3	U	N/A		N/A		1.0	J	2.1	U
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		78.6	J	0.57	J	N/A		N/A		111	J	1.0	J
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		2.8	J	2.3	U	N/A		N/A		4.2	J	2.1	U
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		187		1.7	J	N/A		N/A		330		2.9	J
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		6.4	J	2.3	U	N/A		N/A		10.0	J	2.1	U
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		3.9	J	2.3	U	N/A		N/A		3.6	J	2.1	U
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		45.2	J	0.6	J	N/A		N/A		60.0	J	1.0	J
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		23.7	J	0.41	J	N/A		N/A		28.0	J	0.46	J
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		2.0	J	0.33	J	N/A		N/A		1.8	J	2.1	U
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		6.4	J	2.3	UJ	N/A		N/A		6.3	J	2.1	UJ
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		4.8	J	ND		N/A		N/A		8.1	J	ND	
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		91.0	J	ND		N/A		N/A		552	J	ND	
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		360	J	ND		N/A		N/A		1,830	J	6.5	J
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		56.0	J	ND		N/A		N/A		180	J	0.41	J
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		1,000	J	5.5	J	N/A		N/A		1,840	J	10.0	J
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		1,640	J	14.0	J	N/A		N/A		2,260	J	17.0	J
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		1,040	J	3.0	J	N/A		N/A		1,130	J	8.3	J
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		662	J	ND		N/A		N/A		620	J	3.8	J
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		93.0	J	ND		N/A		N/A		90.0	J	2.4	J
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		142	J	ND		N/A		N/A		167	J	1.6	J
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332	N/A		N/A		N/A		N/A		N/A		N/A		**5,090**	J	22.5	J	N/A		N/A		**8,670**	J	49.9	J
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.46	J	0.010	J	N/A		N/A		0.44	J	0.00016	J
Dioxins/Furans																																
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.10	U	0.07	U	N/A		N/A		0.24	J	0.05	U
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		2.6		0.07	U	N/A		N/A		3.9		0.04	U
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.58	J	0.08	U	N/A		N/A		0.56	J	0.05	U
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.33	J	0.06	U	N/A		N/A		0.8	J	0.04	U
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.9	J	0.07	U	N/A		N/A		1.1	J	0.04	U
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		1.6	J	0.04	U	N/A		N/A		3.0	J	0.037	J
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.61	J	0.04	U	N/A		N/A		1.3	J	0.03	U
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.54	J	0.06	U	N/A		N/A		2.2	J	0.07	U
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		1.5	J	0.06	U	N/A		N/A		8.6		0.06	U
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		1.3	J	0.06	U	N/A		N/A		5.8	J	0.07	U
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.87	J	0.04	U	N/A		N/A		2.1	J	0.03	U
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.15	U	0.05	U	N/A		N/A		0.12	U	0.04	U
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		10.6		0.2	J	N/A		N/A		56.7		0.16	J
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		39.7		0.65	J	N/A		N/A		266		0.53	J
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		0.33	J	0.08	U	N/A		N/A		1.6	J	0.04	U
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		327		5.0	J	N/A		N/A		2,270		4.2	J
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		16.0	J	0.23	J	N/A		N/A		92.4		0.2	J
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		2.1	J	0.03	UJ	N/A		N/A		4.1	J	0.03	UJ
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		4.9	J	0.10	UJ	N/A		N/A		9.8	J	0.17	J
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		14.7	J	0.15	J	N/A		N/A		66.9	J	0.26	J
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		73.6	J	1.2	J	N/A		N/A		477	J	1.0	J
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		19.5	J	0.16	J	N/A		N/A		28.0	J	0.07	UJ
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		13.8	J	0.1	UJ	N/A		N/A		21.2	J	0.1	UJ
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		13.5	J	0.07	J	N/A		N/A		50.9	J	0.13	J
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		23.3	J	0.34	J	N/A		N/A		146	J	0.34	J
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		N/A		N/A		N/A		**2.13**	J	0.0101	J	N/A		N/A		**8.03**	J	0.0119	J
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		N/A		N/A		N/A		**2.59**	J	0.0201	J	N/A		N/A		**8.47**	J	0.0121	J
Asbestos																																
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	N/A	
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	N/A	
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	N/A	
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	N/A	
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	N/A	
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	N/A	
Other Parameters																																
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
ORP	NONE	D1498	Alpha	mV	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-111_0-.5		MHK_SS-111_1-2		MHK_SS-112_0-.5		MHK_SS-113_0-.5		MHK_SS-114_0-.5		MHK_SS-114_0-.5 Duplicate (OW-102, OW-202, OW-302)		MHK_SS-115_0-.5		MHK_SS-116_0-.5		MHK_SS-116_1-2		MHK_SS-117_0-.5		MHK_SS-117_1-2		MHK_SS-118_0-.5	
					Human Health Risk		Ecological Risk		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/24/12	
									USEPA R1: 12100038 AB34987		USEPA R1: 12100038 AB34988		USEPA R1: 12100043 AB35051		USEPA R1: 12100043 AB35052		USEPA R1: 12100043 AB35053		USEPA R1: 12100043 AB35055		USEPA R1: 12100043 AB35054		USEPA R1: 12100037 AB34957		USEPA R1: 12100037 AB34958		USEPA R1: 12100038 AB34989		USEPA R1: 12100038 AB34990		USEPA R1: 12100043 AB35056	
									NHDPHS: A209694017		NHDPHS: A209694018		NHDPHS: A209764009		NHDPHS: A209764010		NHDPHS: A209764011		NHDPHS: A209764013		NHDPHS: A209764012		NHDPHS: A209694005		NHDPHS: A209694006		NHDPHS: A209694019		NHDPHS: A209694020		NHDPHS: A209766001	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-17		Alpha: L1219108-18		Alpha: L1219354-09		Alpha: L1219354-10		Alpha: L1219354-11		Alpha: L1219354-13		Alpha: L1219354-12		Alpha: L1219108-05		Alpha: L1219108-06		Alpha: L1219108-19		Alpha: L1219108-20		Alpha: L1219416-01	
									Contract: C0117		Contract: C0118												Contract: C0105		Contract: C0106		Contract: C0119		Contract: C0120			
									Contract: F0117		Contract: F0118												Contract: F0105		Contract: F0106		Contract: F0119		Contract: F0120			
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A ***		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A ***	
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A ***		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A ***	
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A ***		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A ***	
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A ***		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.13	U	0.11	U	0.12	U	N/A	
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.067	U	0.053	U	N/A		N/A		N/A		N/A		N/A		0.059	U	0.063	U	0.056	U	0.060	U	N/A	
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.21		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-111_0-.5		MHK_SS-111_1-2		MHK_SS-112_0-.5		MHK_SS-113_0-.5		MHK_SS-114_0-.5		MHK_SS-114_0-.5 Duplicate (OW-102, OW-202, OW-302)		MHK_SS-115_0-.5		MHK_SS-116_0-.5		MHK_SS-116_1-2		MHK_SS-117_0-.5		MHK_SS-117_1-2		MHK_SS-118_0-.5	
					Human Health Risk		Ecological Risk		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/24/12	
									USEPA R1: 12100038 AB34987		USEPA R1: 12100038 AB34988		USEPA R1: 12100043 AB35051		USEPA R1: 12100043 AB35052		USEPA R1: 12100043 AB35053		USEPA R1: 12100043 AB35055		USEPA R1: 12100043 AB35054		USEPA R1: 12100037 AB34957		USEPA R1: 12100037 AB34958		USEPA R1: 12100038 AB34989		USEPA R1: 12100038 AB34990		USEPA R1: 12100043 AB35056	
									NHDPHS: A209694017		NHDPHS: A209694018		NHDPHS: A209764009		NHDPHS: A209764010		NHDPHS: A209764011		NHDPHS: A209764013		NHDPHS: A209764012		NHDPHS: A209694005		NHDPHS: A209694006		NHDPHS: A209694019		NHDPHS: A209694020		NHDPHS: A209766001	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-17		Alpha: L1219108-18		Alpha: L1219354-09		Alpha: L1219354-10		Alpha: L1219354-11		Alpha: L1219354-13		Alpha: L1219354-12		Alpha: L1219108-05		Alpha: L1219108-06		Alpha: L1219108-19		Alpha: L1219108-20		Alpha: L1219416-01	
									Contract: C0117		Contract: C0118												Contract: C0105		Contract: C0106		Contract: C0119		Contract: C0120			
									Contract: F0117		Contract: F0118												Contract: F0105		Contract: F0106		Contract: F0119		Contract: F0120			
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	0.24		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.44		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.22		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.17		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.73		0.21	U	N/A		N/A		N/A		N/A		N/A		0.24	U	0.23	U	0.22	U	0.21	U	N/A	
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.47		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.37		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.23	U	0.21	U	N/A		N/A		N/A		N/A		N/A		0.24	U	0.23	U	0.22	U	0.21	U	N/A	
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.23	U	0.21	U	N/A		N/A		N/A		N/A		N/A		0.24	U	0.23	U	0.22	U	0.21	U	N/A	
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.23	U	0.21	U	N/A		N/A		N/A		N/A		N/A		0.24	U	0.23	U	0.22	U	0.21	U	N/A	
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.51		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.18		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	0.23	U	0.21	U	N/A		N/A		N/A		N/A		N/A		0.24	U	0.23	U	0.22	U	0.21	U	N/A	
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.47	U	0.42	U	N/A		N/A		N/A		N/A		N/A		0.48	U	0.47	U	0.43	U	0.42	U	N/A	
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.28		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.47		0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-111_0-.5		MHK_SS-111_1-2		MHK_SS-112_0-.5		MHK_SS-113_0-.5		MHK_SS-114_0-.5		MHK_SS-114_0-.5 Duplicate (OW-102, OW-202, OW-302)		MHK_SS-115_0-.5		MHK_SS-116_0-.5		MHK_SS-116_1-2		MHK_SS-117_0-.5		MHK_SS-117_1-2		MHK_SS-118_0-.5	
					Human Health Risk		Ecological Risk		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/24/12	
									USEPA R1: 12100038 AB34987		USEPA R1: 12100038 AB34988		USEPA R1: 12100043 AB35051		USEPA R1: 12100043 AB35052		USEPA R1: 12100043 AB35053		USEPA R1: 12100043 AB35055		USEPA R1: 12100043 AB35054		USEPA R1: 12100037 AB34957		USEPA R1: 12100037 AB34958		USEPA R1: 12100038 AB34989		USEPA R1: 12100038 AB34990		USEPA R1: 12100043 AB35056	
									NHDPHS: A209694017		NHDPHS: A209694018		NHDPHS: A209764009		NHDPHS: A209764010		NHDPHS: A209764011		NHDPHS: A209764013		NHDPHS: A209764012		NHDPHS: A209694005		NHDPHS: A209694006		NHDPHS: A209694019		NHDPHS: A209694020		NHDPHS: A209766001	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-17		Alpha: L1219108-18		Alpha: L1219354-09		Alpha: L1219354-10		Alpha: L1219354-11		Alpha: L1219354-13		Alpha: L1219354-12		Alpha: L1219108-05		Alpha: L1219108-06		Alpha: L1219108-19		Alpha: L1219108-20		Alpha: L1219416-01	
									Contract: C0117		Contract: C0118												Contract: C0105		Contract: C0106		Contract: C0119		Contract: C0120			
									Contract: F0117		Contract: F0118												Contract: F0105		Contract: F0106		Contract: F0119		Contract: F0120			
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		0.12	U	0.12	U	0.11	U	0.10	U	N/A	
Metals																																
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142	**0.754**		0.246	U	0.235	U	0.274	U	0.217	U	0.239	U	0.234	U	0.233	U	0.232	U	0.232	U	0.225	U	0.247	U
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7	**9.79**		**4.13**		**6.16**		**10.8**		**19.1**		**20.9**		**10.4**		**5.76**		**5.45**		**4.95**		**6.91**		**8.49**	
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04	**26.7**		**25.1**		**30.9**		**39.8**		**14.8**		**14.5**		**31.6**		**26.9**		**39.8**		**18.5**		**20.3**		**32.2**	
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222	**1.56**		0.4921	U	0.2349	U	0.2745	U	0.2173	U	0.2392	U	0.2344	U	0.4659	U	0.4650	U	0.4645	U	0.2252	U	0.2473	U
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *	**94**		13		16		22		12		11		**35**		20		14		9.6		10		30	
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130			0.94	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.97	U	0.90	U	N/A	
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537	**99.9**		**4.65**		**8.42**		**18.4**		**9.15**		**8.68**		**33.6**		**22.4**		**3.85**		**2.91**		**3.17**		**23.4**	
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220	71.3		**227**		**555**		**910**		137		137		**609**		**268**		**238**		79.1		124		**756**	
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1	**0.6662**		0.0682		0.0544	U	**0.1405**		0.0483	U	0.0514	U	**0.1957**		0.0599	U	0.0638	U	0.0537	U	0.0589	U	**0.1268**	
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569	0.242	U	0.246	U	0.235	U	0.274	U	0.217	U	0.239	U	0.234	U	0.233	U	0.232	U	0.232	U	0.225	U	0.247	U
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59	**24.6**		**8.36**		**16.2**		**18.8**		**9.78**		**11.1**		**27.0**		**15.9**		**10.1**		**8.71**		**10.6**		**17.6**	
PCBs																																
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	832		2.2	J	N/A		N/A		N/A		N/A		N/A		24.0	J	0.7	J	2.1	U	2.1	U	N/A	
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	15.0	J	2.3	U	N/A		N/A		N/A		N/A		N/A		2.4	U	2.4	U	2.1	U	2.1	U	N/A	
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	1,600		4.9	J	N/A		N/A		N/A		N/A		N/A		106	J	2.8	J	1.6	J	2.1	U	N/A	
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	62.0	J	2.3	U	N/A		N/A		N/A		N/A		N/A		3.4	J	2.4	U	2.1	U	2.1	U	N/A	
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	4,210		14.0	J	N/A		N/A		N/A		N/A		N/A		245		7.3	J	3.7	J	0.79	J	N/A	
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	834		0.39	J	N/A		N/A		N/A		N/A		N/A		6.0	J	2.4	U	2.1	U	2.1	U	N/A	
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	32.0	J	2.3	U	N/A		N/A		N/A		N/A		N/A		2.4	U	2.4	U	2.1	U	2.1	U	N/A	
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	622		2.8	J	N/A		N/A		N/A		N/A		N/A		50.0	J	2.0	J	0.95	J	4.2	U	N/A	
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	211		1.5	J	N/A		N/A		N/A		N/A		N/A		21.0	J	2.4	U	0.52	J	2.1	U	N/A	
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	9.4	J	2.3	U	N/A		N/A		N/A		N/A		N/A		1.0	J	2.4	U	2.1	U	2.1	U	N/A	
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	50.0	J	2.3	UJ	N/A		N/A		N/A		N/A		N/A		5.0	J	2.4	UJ	2.1	UJ	2.1	U	N/A	
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	91.2	J	R		N/A		N/A		N/A		N/A		N/A		5.0	J	ND		R		2.4	J	N/A	
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	13,400	J	R		N/A		N/A		N/A		N/A		N/A		79.0	J	ND		ND		ND		N/A	
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	21,100	J	40.3	J	N/A		N/A		N/A		N/A		N/A		272	J	ND		5.1	J	ND		N/A	
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	2,460	J	5.0	J	N/A		N/A		N/A		N/A		N/A		60.0	J	1.2	J	ND		ND		N/A	
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	22,600	J	60.0	J	N/A		N/A		N/A		N/A		N/A		1,270	J	34.0	J	9.0	J	2.9	J	N/A	
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	18,700	J	72.1	J	N/A		N/A		N/A		N/A		N/A		1,790	J	49.0	J	17.7	J	ND		N/A	
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	9,300	J	43.7	J	N/A		N/A		N/A		N/A		N/A		986	J	26.0	J	8.6	J	63.8	J	N/A	
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	6,540	J	34.2	J	N/A		N/A		N/A		N/A		N/A		641	J	11.0	J	ND		1,700	J	N/A	
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	671	J	ND		N/A		N/A		N/A		N/A		N/A		100	J	ND		ND		ND		N/A	
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	1,150		5.0	J	N/A		N/A		N/A		N/A		N/A		140	J	3.6	J	ND		1.6	J	N/A	
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332	**96,000**	J	260	J	N/A		N/A		N/A		N/A		N/A		**5,340**	J	125	J	40.4	J	**1,770**	J	N/A	
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	3.8	J	0.00093	J	N/A		N/A		N/A		N/A		N/A		0.045	J	0.00043	J	0.00020	J	0.000024	J	N/A	
Dioxins/Furans																																
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	2.1		0.09	U	N/A		N/A		N/A		N/A		N/A		0.08	U	0.07	U	0.06	U	0.02	U	N/A	
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	28.2		0.12	J	N/A		N/A		N/A		N/A		N/A		1.3		0.09	J	0.06	U	0.02	U	N/A	
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	4.8	J	0.07	J	N/A		N/A		N/A		N/A		N/A		0.28	J	0.07	U	0.07	U	0.02	U	N/A	
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	5.9		0.09	U	N/A		N/A		N/A		N/A		N/A		0.16	J	0.06	U	0.13	U	0.02	U	N/A	
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	7.0		0.07	U	N/A		N/A		N/A		N/A		N/A		0.45	J	0.06	U	0.06	U	0.02	U	N/A	
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	17.9		0.13	U	N/A		N/A		N/A		N/A		N/A		0.59	J	0.08	J	0.09	U	0.02	U	N/A	
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	8.8		0.13	U	N/A		N/A		N/A		N/A		N/A		0.22	J	0.04	U	0.08	U	0.02	U	N/A	
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	16.2		0.13	U	N/A		N/A		N/A		N/A		N/A		0.15	J	0.06	U	0.18	U	0.02	U	N/A	
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	57.8		0.12	U	N/A		N/A		N/A		N/A		N/A		0.34	J	0.06	U	0.16	U	0.02	U	N/A	
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	42.2		0.21	J	N/A		N/A		N/A		N/A		N/A		0.3	J	0.06	U	0.17	U	0.02	U	N/A	
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	14.0		0.12	U	N/A		N/A		N/A		N/A		N/A		0.36	J	0.04	U	0.09	U	0.02	U	N/A	
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	0.61	J	0.14	U	N/A		N/A		N/A		N/A		N/A		0.16	U	0.06	U	0.11	U	0.02	U	N/A	
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	378		1.37	J	N/A		N/A		N/A		N/A		N/A		2.9	J	0.24	J	0.36	J	0.14	J	N/A	
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	1,920		5.9	J	N/A		N/A		N/A		N/A		N/A		9.1	J	0.72	J	1.7	J	0.63	J	N/A	
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	11.8		0.24	U	N/A		N/A		N/A		N/A		N/A		0.16	J	0.07	U	0.14	U	0.02	U	N/A	
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	210,000	J	44.5	J	N/A		N/A		N/A		N/A		N/A		74.7	J	6.8	J	20.1	J	7.9	J	N/A	
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	676		2.2	J	N/A		N/A		N/A		N/A		N/A		3.9	J	0.58	J	0.94	J	0.44	J	N/A	
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	28.2	J	0.07	J	N/A		N/A		N/A		N/A		N/A		1.2	J	0.03	UJ	0.03	UJ	0.07	J	N/A	
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	93.0	J	0.27	J	N/A		N/A		N/A		N/A		N/A		2.0	J	0.12	UJ1	0.09	J	0.06	UJ	N/A	
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	469	J	1.1	J	N/A		N/A		N/A		N/A		N/A		4.2	J	0.44	J	0.67	J	0.06	J	N/A	
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	3,550	J	10.3	J	N/A		N/A		N/A		N/A		N/A		17.2	J	1.5	J	2.9	J	1.1	J	N/A	
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	194	J	1.0	J	N/A		N/A		N/A		N/A		N/A		10.9	J	1.1	J	0.08	J	0.06	UJ	N/A	
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	152	J	0.56	J	N/A		N/A		N/A		N/A		N/A		5.9	J	0.34	J	0.07	J	0.02	UJ	N/A	
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	363	J	1.4	J	N/A		N/A		N/A		N/A		N/A		4.5	J	0.31	J	0.52	J	0.14	J	N/A	
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	1,000	J	3.4	J	N/A		N/A		N/A		N/A		N/A		6.1	J	0.48	J	0.94	J	0.38	J	N/A	
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	**115**	J	0.122	J	N/A		N/A		N/A		N/A		N/A		**0.775**	J	0.0288	J	0.0269	J	0.0102	J	N/A	
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	**119**	J	0.123	J	N/A		N/A		N/A		N/A		N/A		**0.820**	J	0.0292	J	0.0271	J	0.0102	J	N/A	
Asbestos																																
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	N/A		1.0	U
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	N/A		1.0	U
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	N/A		1.0	U
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	N/A		1.0	U
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	N/A		1.0	U
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	N/A		1.0	U
Other Parameters																																
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–	4.2		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.8		4.6		N/A	
ORP	NONE	D1498	Alpha	mV	–	–	–	–	280	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		240	J	290	J	N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-119_0-.5		MHK_SS-120_0-.5		MHK_SS-121_0-.5		MHK_SS-122_0-.5		MHK_SS-122_1-2		MHK_SS-123_0-.5		MHK_SS-124_0-.5		MHK_SS-125_0-.5		MHK_SS-126_0-.5		MHK_SS-127_0-.5		MHK_SS-128_0-.5		MHK_SS-129_0-.5	
					Human Health Risk		Ecological Risk		10/24/12		10/24/12		10/24/12		10/22/12		10/22/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12	
									USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	AB35057		AB35058		AB35059		AB34959		AB34976		AB35060		AB35061		AB35062		AB35063		AB35064		AB35065		AB35066	
									NHDPHS: A209766002		NHDPHS: A209766003		NHDPHS: A209766004		NHDPHS: A209694007		NHDPHS: A209694008		NHDPHS: A209766005		NHDPHS: A209766006		NHDPHS: A209766007		NHDPHS: A209766008		NHDPHS: A209766009		NHDPHS: A209766010		NHDPHS: A209766011	
									Alpha: L1219416-02		Alpha: L1219416-03		Alpha: L1219416-04		Alpha: L1219108-07		Alpha: L1219108-08		Alpha: L1219416-05		Alpha: L1219416-06		Alpha: L1219416-07		Alpha: L1219416-08		Alpha: L1219416-09		Alpha: L1219416-10		Alpha: L1219416-11	
															Contract: C0107		Contract: C0108															
															Contract: F0107		Contract: F0108															
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.14	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.058	U	0.068	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-119_0-.5		MHK_SS-120_0-.5		MHK_SS-121_0-.5		MHK_SS-122_0-.5		MHK_SS-122_1-2		MHK_SS-123_0-.5		MHK_SS-124_0-.5		MHK_SS-125_0-.5		MHK_SS-126_0-.5		MHK_SS-127_0-.5		MHK_SS-128_0-.5		MHK_SS-129_0-.5	
					Human Health Risk		Ecological Risk		10/24/12		10/24/12		10/24/12		10/22/12		10/22/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12	
									USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043	
									AB35057		AB35058		AB35059		AB34959		AB34976		AB35060		AB35061		AB35062		AB35063		AB35064		AB35065		AB35066	
									NHDPHS: A209766002		NHDPHS: A209766003		NHDPHS: A209766004		NHDPHS: A209694007		NHDPHS: A209694008		NHDPHS: A209766005		NHDPHS: A209766006		NHDPHS: A209766007		NHDPHS: A209766008		NHDPHS: A209766009		NHDPHS: A209766010		NHDPHS: A209766011	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219416-02		Alpha: L1219416-03		Alpha: L1219416-04		Alpha: L1219108-07		Alpha: L1219108-08		Alpha: L1219416-05		Alpha: L1219416-06		Alpha: L1219416-07		Alpha: L1219416-08		Alpha: L1219416-09		Alpha: L1219416-10		Alpha: L1219416-11	
															Contract: C0107		Contract: C0108															
															Contract: F0107		Contract: F0108															
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.23	U	0.23	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.23	U	0.23	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.23	U	0.23	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.23	U	0.23	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	N/A		N/A		N/A		0.23	U	0.23	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.47	U	0.45	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-119_0-.5		MHK_SS-120_0-.5		MHK_SS-121_0-.5		MHK_SS-122_0-.5		MHK_SS-122_1-2		MHK_SS-123_0-.5		MHK_SS-124_0-.5		MHK_SS-125_0-.5		MHK_SS-126_0-.5		MHK_SS-127_0-.5		MHK_SS-128_0-.5		MHK_SS-129_0-.5	
					Human Health Risk		Ecological Risk		10/24/12		10/24/12		10/24/12		10/22/12		10/22/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12	
									USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043		USEPA R1: 12100043	
									AB35057		AB35058		AB35059		AB34959		AB34976		AB35060		AB35061		AB35062		AB35063		AB35064		AB35065		AB35066	
									NHDPHS: A209766002		NHDPHS: A209766003		NHDPHS: A209766004		NHDPHS: A209694007		NHDPHS: A209694008		NHDPHS: A209766005		NHDPHS: A209766006		NHDPHS: A209766007		NHDPHS: A209766008		NHDPHS: A209766009		NHDPHS: A209766010		NHDPHS: A209766011	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219416-02		Alpha: L1219416-03		Alpha: L1219416-04		Alpha: L1219108-07		Alpha: L1219108-08		Alpha: L1219416-05		Alpha: L1219416-06		Alpha: L1219416-07		Alpha: L1219416-08		Alpha: L1219416-09		Alpha: L1219416-10		Alpha: L1219416-11	
															Contract: C0107		Contract: C0108															
															Contract: F0107		Contract: F0108															
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		0.12	U	0.11	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Metals																																
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142	**0.388**		0.242	U	**0.482**		0.215	U	0.238	U	**0.317**		0.235	U	0.226	U	0.221	U	**31.8**		0.227	U	0.230	U
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7	**10.1**		**7.12**		**10.9**		**7.65**		**14.9**		**9.59**		**7.24**		**10.3**		**6.55**		**9.15**		**7.40**		**7.63**	
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04	**52.7**		**22.1**		**25.2**		**24.5**		**22.2**		**26.1**		**31.7**		**29.0**		**25.8**		**12.0**		**19.5**		**27.3**	
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222	**1.09**		**0.2666**		**1.25**		**0.5514**		0.4757	U	**0.3578**		0.2354	U	0.2260	U	0.2205	U	0.2124	U	0.2273	U	0.2301	U
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *	**620**		**40**		**170**		**190**		**64**		**92**		**1,400**		24		**82**		30		**100**		**180**	
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537	**51.1**		**41.7**		**56.6**		**13.6**		**5.35**		**71.3**		**48.1**		**12.6**		**43.2**		**7.40**		**23.5**		**21.3**	
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220	**380**		**326**		141		181		**403**		110		220		129		**299**		110		61.7		63.6	
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1	**0.2678**		**0.2846**		**0.6626**		0.0917		0.0501	U	**0.3691**		**0.2559**		0.0585	U	0.0664		**0.3403**		**0.7386**		0.0743	
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569	0.310	U	0.242	U	0.239	U	0.215	U	0.238	U	0.257	U	0.235	U	0.226	U	0.221	U	0.212	U	0.227	U	0.230	U
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59	**10.4**		**19.0**		**14.1**		**8.31**		**10.2**		**28.9**		**7.17**		**24.3**		**38.1**		**16.3**		**39.5**		**50.6**	
PCBs																																
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		9.0	J	1.5	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		4.8	J	2.4	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		106	J	19.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		2.6	J	2.4	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		335		81.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		12.0	J	2.1	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		1.3	J	2.4	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		134	J	24.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		62.0	J	10.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		2.3	U	2.4	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		6.3	J	1.3	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		ND		ND		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		159	J	ND		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		578	J	69.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		56.0	J	7.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		2,710	J	621	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		5,040	J	988	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		828	J	190	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		183	J	52.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		16.0	J	23.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		27.0	J	16.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332	N/A		N/A		N/A		**9,610**	J	**1,970**	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		0.15	J	0.0043	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dioxins/Furans																																
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		0.95	J	0.09	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		0.88	J	0.2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		0.2	J	0.13	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		2.8	J	0.27	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		0.75	J	0.12	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		6.0		0.59	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		4.4	J	0.39	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		5.0	J	0.4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		48.9		4.4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		19.0		1.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		20.2		1.4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		0.21	J	0.12	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		524		39.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		2,110		174		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		15.9		1.3	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		28,800	J	2,620		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		1,600		163		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		6.7	J	0.47	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		26.9	J	2.5	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		275	J	22.3	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		3,670	J	301	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		12.3	J	0.96	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		37.0	J	3.0	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		476	J	33.5	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		1,840	J	138	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		**50.1**	J	**4.2**	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		**50.3**	J	**4.2**	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Asbestos																																
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Other Parameters																																
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
ORP	NONE	D1498	Alpha	mV	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-129_0-.5 Duplicate (OW-103, OW-203, OW303)		MHK_SS-130_0-.5		MHK_SS-131_0-.5		MHK_SS-132_0-.5		MHK_SS-133_0-.5		MHK_SS-133_0-.5 Duplicate (OW-104, OW-204, OW-304)		MHK_SS-134_0-.5		MHK_SS-135_0-.5		MHK_SS-136_0-.5		MHK_SS-137_0-.5		MHK_SS-137_1-2		MHK_SS-138_0-.5	
					Human Health Risk		Ecological Risk		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/22/12		10/22/12		10/23/12	
									USEPA R1: 12100043 AB35068		USEPA R1: 12100043 AB35067		USEPA R1: 12100043 AB35069		USEPA R1: 12100043 AB35070		USEPA R1: 12100043 AB35071		USEPA R1: 12100043 AB35080		USEPA R1: 12100043 AB35072		USEPA R1: 12100043 AB35073		USEPA R1: 12100043 AB35074		USEPA R1: 12100037 AB34960		USEPA R1: 12100037 AB34961		USEPA R1: 12100038 AB34991	
									NHDPHS: A209766013		NHDPHS: A209766012		NHDPHS: A209776001		NHDPHS: A209776002		NHDPHS: A209776003		NHDPHS: A209776012		NHDPHS: A209776004		NHDPHS: A209776005		NHDPHS: A209776006		NHDPHS: A209694009		NHDPHS: A209694010		NHDPHS: A209694021	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219416-13		Alpha: L1219416-12		Alpha: L1219355-01		Alpha: L1219355-02		Alpha: L1219355-03		Alpha: L1219355-12		Alpha: L1219355-04		Alpha: L1219355-05		Alpha: L1219355-06		Alpha: L1219108-09		Alpha: L1219108-10		Alpha: L1219108-21	
																											Contract: C0109		Contract: C0110		Contract: C0121	
																											Contract: F0109		Contract: F0110		Contract: F0121	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11	U	0.18	U
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.056	U	0.055	U	0.089	U
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.18		0.13	U
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.11		0.13	U
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.13		0.41		0.13	U

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-129_0-.5 Duplicate (OW-103, OW-203, OW303)		MHK_SS-130_0-.5		MHK_SS-131_0-.5		MHK_SS-132_0-.5		MHK_SS-133_0-.5		MHK_SS-133_0-.5 Duplicate (OW-104, OW-204, OW-304)		MHK_SS-134_0-.5		MHK_SS-135_0-.5		MHK_SS-136_0-.5		MHK_SS-137_0-.5		MHK_SS-137_1-2		MHK_SS-138_0-.5	
					Human Health Risk		Ecological Risk		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/22/12		10/22/12		10/23/12	
									USEPA R1: 12100043 AB35068		USEPA R1: 12100043 AB35067		USEPA R1: 12100043 AB35069		USEPA R1: 12100043 AB35070		USEPA R1: 12100043 AB35071		USEPA R1: 12100043 AB35080		USEPA R1: 12100043 AB35072		USEPA R1: 12100043 AB35073		USEPA R1: 12100043 AB35074		USEPA R1: 12100037 AB34960		USEPA R1: 12100037 AB34961		USEPA R1: 12100038 AB34991	
									NHDPHS: A209766013		NHDPHS: A209766012		NHDPHS: A209776001		NHDPHS: A209776002		NHDPHS: A209776003		NHDPHS: A209776012		NHDPHS: A209776004		NHDPHS: A209776005		NHDPHS: A209776006		NHDPHS: A209694009		NHDPHS: A209694010		NHDPHS: A209694021	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219416-13		Alpha: L1219416-12		Alpha: L1219355-01		Alpha: L1219355-02		Alpha: L1219355-03		Alpha: L1219355-12		Alpha: L1219355-04		Alpha: L1219355-05		Alpha: L1219355-06		Alpha: L1219108-09		Alpha: L1219108-10		Alpha: L1219108-21	
																											Contract: C0109		Contract: C0110		Contract: C0121	
																											Contract: F0109		Contract: F0110		Contract: F0121	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.15		0.52		0.13	U
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.16		0.56		0.13	U
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.13		0.37		0.13	U
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.19		0.13	U
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.23	U	0.21	U	0.26	U
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.18		0.70		0.13	U
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.23	U	0.21	U	0.26	U
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.23	U	0.21	U	0.26	U
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.23	U	0.21	U	0.26	U
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.20		0.77		0.13	U
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.24		0.13	U
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.23	U	0.21	U	0.26	U
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10		0.13	U
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.46	U	0.41	U	0.53	U
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.20		1.2		0.13	U
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.28		1.3		0.13	U
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-129_0-.5 Duplicate (OW-103, OW-203, OW303)		MHK_SS-130_0-.5		MHK_SS-131_0-.5		MHK_SS-132_0-.5		MHK_SS-133_0-.5		MHK_SS-133_0-.5 Duplicate (OW-104, OW-204, OW-304)		MHK_SS-134_0-.5		MHK_SS-135_0-.5		MHK_SS-136_0-.5		MHK_SS-137_0-.5		MHK_SS-137_1-2		MHK_SS-138_0-.5	
					Human Health Risk		Ecological Risk		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/24/12		10/22/12		10/22/12		10/23/12	
									USEPA R1: 12100043 AB35068		USEPA R1: 12100043 AB35067		USEPA R1: 12100043 AB35069		USEPA R1: 12100043 AB35070		USEPA R1: 12100043 AB35071		USEPA R1: 12100043 AB35080		USEPA R1: 12100043 AB35072		USEPA R1: 12100043 AB35073		USEPA R1: 12100043 AB35074		USEPA R1: 12100037 AB34960		USEPA R1: 12100037 AB34961		USEPA R1: 12100038 AB34991	
									NHDPHS: A209766013		NHDPHS: A209766012		NHDPHS: A209776001		NHDPHS: A209776002		NHDPHS: A209776003		NHDPHS: A209776012		NHDPHS: A209776004		NHDPHS: A209776005		NHDPHS: A209776006		NHDPHS: A209694009		NHDPHS: A209694010		NHDPHS: A209694021	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219416-13		Alpha: L1219416-12		Alpha: L1219355-01		Alpha: L1219355-02		Alpha: L1219355-03		Alpha: L1219355-12		Alpha: L1219355-04		Alpha: L1219355-05		Alpha: L1219355-06		Alpha: L1219108-09		Alpha: L1219108-10		Alpha: L1219108-21	
																											Contract: C0109		Contract: C0110		Contract: C0121	
																											Contract: F0109		Contract: F0110		Contract: F0121	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.11	U	0.10	U	0.13	U
Metals																																
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142	0.224	U	0.233	U	0.207	U	0.230	U	0.228	U	0.226	U	0.252	U	0.241	U	0.222	U	0.243	U	0.219	U	0.037	
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7	**7.55**		**6.21**		**9.86**		**3.30**		**5.86**		**6.33**		**7.15**		**11.5**		**5.01**		**9.59**		**7.65**		**14.3**	
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04	**27.6**		**20.2**		**32.9**		**14.2**		**13.7**		**15.0**		**46.7**		**29.5**		**13.7**		**32.5**		**19.4**		**246**	
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222	0.2244	U	0.2329	U	0.2072	U	0.2301	U	0.2280	U	0.2263	U	0.2522	U	**0.2557**		0.2219	U	**0.5442**		0.4383	U	**0.8495**	
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *	**190**		**88**		**450**		27		**38**		**36**		**260**		**620**		**1,000**		**670**		**150**		**9,600**	
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.4	U
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537	**21.8**		**20.9**		**20.2**		**13.5**		**30.5**		**37.4**		**30.7**		**16.4**		**7.04**		**25.5**		**9.35**		**187**	
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220	67.4		73.2		**222**		215		64.0		68.1		**266**		203		128		165		152		**323**	
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1	0.0589		0.0647		**0.1187**		0.0576	U	0.0524		0.0556	U	**0.1899**		**0.4755**		0.0657		**0.1090**		0.0573		**3.09**	
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569	0.224	U	0.233	U	0.207	U	0.230	U	0.228	U	0.226	U	0.252	U	0.241	U	0.222	U	0.243	U	0.219	U	0.030	U
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59	**47.0**		**23.1**		**10.9**		**22.1**		**28.3**		**31.2**		**17.6**		**6.28**		2.22	U	**3.99**		**7.01**		2.47	U
PCBs																																
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		14.0	J	6.4	J	244	
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3.3	J	0.27	J	201	J
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		78.0	J	43.0	J	6,630	
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.8	J	1.9	J	105	
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		161		83.0	J	11,400	
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.2	J	2.4	J	301	
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.2	U	0.90	J	21.6	J
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		72.0	J	27.0	J	4,340	
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		33.0	J	13.0	J	1,400	
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.45	J	2.1	U	12.8	U
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.6	J	3.4	J	154	J
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.2	J	4.5	J	132	J
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		306	J	100	J	949	J
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		665	J	216	J	4,240	J
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		65.0	J	41.0	J	1,790	J
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1,820	J	847	J	129,000	J
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3,550	J	1,280	J	130,000	J
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1,680	J	675	J	22,600	J
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		672	J	231	J	23,900	J
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		69.0	J	19.0	J	137,000	J
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		85.0	J	22.0	J	453	
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		**8,910**	J	**3,440**	J	**450,000**	J
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.027	J	0.096	J	2.97	J
Dioxins/Furans																																
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.5		0.78	J	52.9	
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1.6		0.44	J	5.5	
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1.4	J	0.23	J	3.3	J
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		14.1		2.0	J	88.3	
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5	J	0.47	J	15.3	
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		20.7		3.3	J	174	
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		15.5		2.3	J	93.0	
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		20.7		2.5	J	108	
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		176		27.6		1,520	
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		74.6		10.3		396	
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		62.3		9.1		421	
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.52	J	0.19	U	0.74	U
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1,600		251		13,400	J
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8,350		1,230		55,500	J
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		59.6		9.1		428	
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		117,000	J	21,400	J	560,000	J
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		6,960		940		37,000	
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		35.4	J	5.9	J	234	J
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		120	J	18.1	J	799	J
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		968	J	143	J	6,070	J
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		13,300	J	2,130	J	90,700	J
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		36.0	J	8.7	J	266	J
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		126	J	20.0	J	772	J
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1,470	J	210	J	11,800	J
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5,840	J	907	J	50,100	J
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		**195**	J	**30.1**	J	**1,290**	J
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		**195**	J	**30.2**	J	**1,293**	J
Asbestos																																
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1		N/A		1.0	U
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		1.0	U
Other Parameters																																
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		7.7	
ORP	NONE	D1498	Alpha	mV	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		220	J

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-138_1-2		MHK_SS-139_0-.5		MHK_SS-139_1-2		MHK_SS-140_0-.5		MHK_SS-140_0-.5 Duplicate (OW-101, OW-201, OW-301, OW-401)		MHK_SS-140_1-2		MHK_SS-141_0-.5		MHK_SS-142_0-.5		MHK_SS-143_0-.5		MHK_SS-144_0-.5		MHK_SS-145_0-.5		MHK_SS-146_0-.5	
					Human Health Risk		Ecological Risk		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/23/12		10/22/12		10/24/12		10/22/12		10/24/12		10/23/12		10/24/12	
									USEPA R1: 12100037 AB34962		USEPA R1: 12100037 AB34972		USEPA R1: 12100038 AB34982		USEPA R1: 12100037 AB34963		USEPA R1: 12100037 AB34971		USEPA R1: 12100037 AB34964		USEPA R1: 12100037 AB34973		USEPA R1: 12100043 AB35075		USEPA R1: 12100037 AB34974		USEPA R1: 12100043 AB35076		USEPA R1: 12100037 AB34965		USEPA R1: 12100043 AB35077	
									NHDPHS: A209694022		NHDPHS: A209694011		NHDPHS: A209694012		NHDPHS: A209694023		NHDPHS: A209694031		NHDPHS: A209694024		NHDPHS: A209694013		NHDPHS: A209776007		NHDPHS: A209694014		NHDPHS: A209776008		NHDPHS: A209694025		NHDPHS: A209776009	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-22		Alpha: L1219108-11		Alpha: L1219108-12		Alpha: L1219108-23		Alpha: L1219108-31		Alpha: L1219108-24		Alpha: L1219108-13		Alpha: L1219355-07		Alpha: L1219108-14		Alpha: L1219355-08		Alpha: L1219108-25		Alpha: L1219355-09	
									Contract: C0122		Contract: C0111		Contract: C0112		Contract: C0123		Contract: C0131		Contract: C0124		Contract: C0113				Contract: C0114				Contract: C0125			
									Contract: F0122		Contract: F0111		Contract: F0112		Contract: F0123		Contract: F0131		Contract: F0124		Contract: F0113				Contract: F0114				Contract: F0125			
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.17	U	0.11	U	0.12	U	0.14	U	0.12	U	0.12	U	0.13	U	N/A		0.16	U	N/A		0.14	U	N/A	
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.084	U	0.057	U	0.058	U	0.068	U	0.062	U	0.062	U	0.067	U	N/A		0.080	U	N/A		0.069	U	N/A	
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.28		N/A		0.26		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-138_1-2		MHK_SS-139_0-.5		MHK_SS-139_1-2		MHK_SS-140_0-.5		MHK_SS-140_0-.5 Duplicate (OW-101, OW-201, OW-301, OW-401)		MHK_SS-140_1-2		MHK_SS-141_0-.5		MHK_SS-142_0-.5		MHK_SS-143_0-.5		MHK_SS-144_0-.5		MHK_SS-145_0-.5		MHK_SS-146_0-.5	
					Human Health Risk		Ecological Risk		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/23/12		10/22/12		10/24/12		10/22/12		10/24/12		10/23/12		10/24/12	
									USEPA R1: 12100037 AB34962		USEPA R1: 12100037 AB34972		USEPA R1: 12100038 AB34982		USEPA R1: 12100037 AB34963		USEPA R1: 12100037 AB34971		USEPA R1: 12100037 AB34964		USEPA R1: 12100037 AB34973		USEPA R1: 12100043 AB35075		USEPA R1: 12100037 AB34974		USEPA R1: 12100043 AB35076		USEPA R1: 12100037 AB34965		USEPA R1: 12100043 AB35077	
									NHDPHS: A209694022		NHDPHS: A209694011		NHDPHS: A209694012		NHDPHS: A209694023		NHDPHS: A209694031		NHDPHS: A209694024		NHDPHS: A209694013		NHDPHS: A209776007		NHDPHS: A209694014		NHDPHS: A209776008		NHDPHS: A209694025		NHDPHS: A209776009	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-22		Alpha: L1219108-11		Alpha: L1219108-12		Alpha: L1219108-23		Alpha: L1219108-31		Alpha: L1219108-24		Alpha: L1219108-13		Alpha: L1219355-07		Alpha: L1219108-14		Alpha: L1219355-08		Alpha: L1219108-25		Alpha: L1219355-09	
									Contract: C0122		Contract: C0111		Contract: C0112		Contract: C0123		Contract: C0131		Contract: C0124		Contract: C0113				Contract: C0114				Contract: C0125			
									Contract: F0122		Contract: F0111		Contract: F0112		Contract: F0123		Contract: F0131		Contract: F0124		Contract: F0113				Contract: F0114				Contract: F0125			
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	0.13	U	0.11	U	0.10	U	0.14		0.11	U	0.11	U	0.11	U	N/A		0.33		N/A		0.32		N/A	
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.18		0.13		0.11	U	0.12		N/A		0.49		N/A		0.54		N/A	
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.16		0.13		0.11	U	0.11	U	N/A		0.27		N/A		0.26		N/A	
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.16		N/A		0.19		N/A	
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.26	U	0.22	U	0.21	U	0.41		0.35		0.23	U	0.31		N/A		0.46		N/A		0.42		N/A	
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.32		N/A		0.26		N/A	
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.15		0.13		0.11	U	0.11	U	N/A		0.43		N/A		0.41		N/A	
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.26	U	0.22	U	0.21	U	0.26	U	0.22	U	0.23	U	0.23	U	N/A		0.29	U	N/A		0.26	U	N/A	
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.26	U	0.22	U	0.21	U	0.26	U	0.22	U	0.23	U	0.23	U	N/A		0.29	U	N/A		0.26	U	N/A	
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.26	U	0.22	U	0.21	U	0.26	U	0.22	U	0.23	U	0.23	U	N/A		0.29	U	N/A		0.26	U	N/A	
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.21		0.18		0.11	U	0.17		N/A		0.62		N/A		0.71		N/A	
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13		0.11	U	0.11	U	0.11	U	N/A		0.24		N/A		0.21		N/A	
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	0.26	U	0.22	U	0.21	U	0.26	U	0.22	U	0.23	U	0.23	U	N/A		0.29	U	N/A		0.26	U	N/A	
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.52	U	0.43	U	0.42	U	0.53	U	0.44	U	0.45	U	0.45	U	N/A		0.58	U	N/A		0.53	U	N/A	
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	0.13	U	0.11	U	0.10	U	0.38		0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.17		0.12		0.11	U	0.11	U	N/A		0.30		N/A		0.39		N/A	
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.19		0.19		0.11	U	0.15		N/A		0.53		N/A		0.58		N/A	
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-138_1-2		MHK_SS-139_0-.5		MHK_SS-139_1-2		MHK_SS-140_0-.5		MHK_SS-140_0-.5 Duplicate (OW-101, OW-201, OW-301, OW-401)		MHK_SS-140_1-2		MHK_SS-141_0-.5		MHK_SS-142_0-.5		MHK_SS-143_0-.5		MHK_SS-144_0-.5		MHK_SS-145_0-.5		MHK_SS-146_0-.5	
					Human Health Risk		Ecological Risk		10/23/12		10/22/12		10/22/12		10/23/12		10/23/12		10/23/12		10/22/12		10/24/12		10/22/12		10/24/12		10/23/12		10/24/12	
									USEPA R1: 12100037 AB34962		USEPA R1: 12100037 AB34972		USEPA R1: 12100038 AB34982		USEPA R1: 12100037 AB34963		USEPA R1: 12100037 AB34971		USEPA R1: 12100037 AB34964		USEPA R1: 12100037 AB34973		USEPA R1: 12100043 AB35075		USEPA R1: 12100037 AB34974		USEPA R1: 12100043 AB35076		USEPA R1: 12100037 AB34965		USEPA R1: 12100043 AB35077	
									NHDPHS: A209694022		NHDPHS: A209694011		NHDPHS: A209694012		NHDPHS: A209694023		NHDPHS: A209694031		NHDPHS: A209694024		NHDPHS: A209694013		NHDPHS: A209776007		NHDPHS: A209694014		NHDPHS: A209776008		NHDPHS: A209694025		NHDPHS: A209776009	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-22		Alpha: L1219108-11		Alpha: L1219108-12		Alpha: L1219108-23		Alpha: L1219108-31		Alpha: L1219108-24		Alpha: L1219108-13		Alpha: L1219355-07		Alpha: L1219108-14		Alpha: L1219355-08		Alpha: L1219108-25		Alpha: L1219355-09	
									Contract: C0122		Contract: C0111		Contract: C0112		Contract: C0123		Contract: C0131		Contract: C0124		Contract: C0113				Contract: C0114				Contract: C0125			
									Contract: F0122		Contract: F0111		Contract: F0112		Contract: F0123		Contract: F0131		Contract: F0124		Contract: F0113				Contract: F0114				Contract: F0125			
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.13	U	0.11	U	0.10	U	0.13	U	0.11	U	0.11	U	0.11	U	N/A		0.14	U	N/A		0.13	U	N/A	
Metals																																
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142	**0.407**		0.235	U	0.229	U	0.203	U	0.212	U	0.205	U	0.230	U	0.225	U	**0.479**		**0.740**		**0.497**		**0.707**	
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7	**13.2**		**11.7**		**7.86**		**9.74**		**9.76**		**7.84**		**6.16**		**5.93**		**15.5**		**15.6**		**15.1**		**15.2**	
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04	**365**		**44.7**		**35.3**		**36.0**		**45.4**		**26.2**		**26.8**		**21.4**		**61.3**		**70.2**		**62.9**		**54.3**	
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222	**7.04**		**1.85**		0.4582	U	**0.6444**		**0.7034**		0.2047	U	**1.33**		**0.6583**		**3.87**		**4.84**		**4.16**		**3.33**	
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *	**13,000**		**1,000**		**620**		**1,900**		**1,600**		**95**		**130**		**40**		**96**		**220**		**110**		**87**	
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130			0.26	U	N/A		N/A		0.26	U	0.26	U	N/A		N/A		N/A		N/A		N/A		0.26	U	N/A	
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537	**167**		**43.0**		**26.0**		**43.4**		**43.0**		**13.0**		**42.6**		**20.9**		**58.7**		**65.9**		**54.1**		**57.2**	
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220	175		217		177		**255**		**282**		200		117		177		**935**		**936**		**960**		**826**	
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1	**3.74**		**0.2952**		0.0933		**0.8598**		**2.33**		0.0575	U	**0.6793**		**0.2121**		**0.5464**		0.0928		**0.4746**		0.0607	U
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569	0.231	U	0.235	U	0.229	U	0.203	U	0.212	U	0.205	U	0.230	U	0.225	U	0.242	U	0.258	U	0.210	U	0.262	U
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59	2.31	U	**2.62**		**7.79**		4.07	U	4.24	U	**8.76**		**7.74**		**6.24**		**9.46**		**9.78**		**9.16**		**12.4**	
PCBs																																
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	240		26.0	J	11.0	J	32.0	J	26.0	J	1.2	J	53.0	J	N/A		582		N/A		535		N/A	
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	263	J	0.54	J	0.37	J	1.6	J	0.94	J	0.96	J	1.7	J	N/A		14.0	J	N/A		9.3	J	N/A	
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	4,970		152	J	238		461		422		18.0	J	178		N/A		775		N/A		1,220		N/A	
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	53.2	J	4.2	J	4.6	J	14.0	J	12.0	J	2.2	U	6.5	J	N/A		60.0	J	N/A		56.0	J	N/A	
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	13,700		295		577		864		761		38.0	J	390		N/A		4,050		N/A		3,560		N/A	
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	244		11.0	J	10.0	J	33.0	J	34.0	J	1.5	J	13.0	J	N/A		68.0	J	N/A		69.0	J	N/A	
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	12.7	U	3.6	J	2.2	U	2.2	U	2.3	U	0.26	J	2.2	U	N/A		12.3	U	N/A		2.5	U	N/A	
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	3,280		131	J	4.4	U	548		546		23.0	J	88.0	J	N/A		557		N/A		410		N/A	
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	1,520		55.0	J	2.2	U	257		263		11.0	J	31.0	J	N/A		205		N/A		143		N/A	
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	12.7	U	2.4	U	2.2	U	2.2	U	2.9	J	2.2	U	1.0	J	N/A		4.7	J	N/A		2.5	U	N/A	
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	164		13.0	J	4.8	J	2.2	UJ	2.3	UJ	1.7	J	7.0	J	N/A		47.4	J	N/A		2.5	UJ	N/A	
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	88.5	J	13.2	J	ND		16.1	J	12.7	J	2.7	J	19.0	J	N/A		152	J	N/A		73.1	J	N/A	
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	1,990	J	1,080	J	50.0	J	902	J	837	J	ND		2,270	J	N/A		6,390	J	N/A		8,580	J	N/A	
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	2,850	J	991	J	108	J	836	J	712	J	17.3	J	2,720	J	N/A		20,600	J	N/A		13,900	J	N/A	
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	2,160	J	100	J	82.0	J	148	J	108	J	4.8	J	223	J	N/A		2,410	J	N/A		2,490	J	N/A	
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	188,000	J	2,630	J	4,930	J	12,500	J	12,200	J	456	J	2,660	J	N/A		23,400	J	N/A		23,900	J	N/A	
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	144,000	J	5,200	J	ND		23,500	J	23,800	J	846	J	2,740	J	N/A		20,600	J	N/A		22,300	J	N/A	
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	1,190,000	J	3,350	J	816	J	5,160	J	5,090	J	227	J	1,370	J	N/A		9,410	J	N/A		6,140	J	N/A	
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	4,050	J	1,770	J	404	J	1,450	J	1,520	J	11.5	J	862	J	N/A		4,310	J	N/A		2,870	J	N/A	
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	382	J	115	J	27.0	J	76.1	J	81.5	J	4.8	J	100	J	N/A		471	J	N/A		287	J	N/A	
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	600		87.0	J	33.0	J	119	J	99.1	J	8.0	J	147	J	N/A		708		N/A		304		N/A	
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332	**1,530,000**	J	**15,300**	J	**6,450**	J	**44,700**	J	**44,500**	J	**1,580**	J	**13,100**	J	N/A		**88,300**	J	N/A		**80,800**	J	N/A	
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	0.821	J	0.38	J	0.026	J	0.06899	J	0.151	J	0.0292	J	0.057	J	N/A		0.38	J	N/A		0.22	J	N/A	
Dioxins/Furans																																
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	48.0		1.8		0.69	J	8.1		7.4		0.33	J	0.34	J	N/A		1.9		N/A		1.4		N/A	
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	3.9		3.5		0.87	J	2.2		2.2		0.22	J	10.5		N/A		16.3		N/A		11.3		N/A	
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	4.5	J	1.1	J	0.17	J	2.1	J	2.2	J	0.17	J	1.7	J	N/A		2.1	J	N/A		1.0	J	N/A	
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	63.1		8.7		1.3	J	31.1		25.6		1.0	J	1.3	J	N/A		5.5	J	N/A		3.6	J	N/A	
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	12.5		2.8	J	0.39	J	4.0	J	5.0	J	0.16	J	1.7	J	N/A		4.3	J	N/A		2.3	J	N/A	
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	153		22.6		2.8	J	43.7		44.6		1.3	J	3.8	J	N/A		18.0		N/A		10.1	J	N/A	
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	83.0		17.0		1.7	J	30.2		28.7		0.89	J	1.7	J	N/A		8.7		N/A		5.6	J	N/A	
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	88.1		17.2		1.4	J	49.3		48.3		1.3	J	2.9	J	N/A		15.6		N/A		10.3		N/A	
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	1,280		172		21.0		356		344		11.9		12.6		N/A		55.7		N/A		38.7		N/A	
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	309		61.1		6.4		154		145		3.9	J	8.8		N/A		41.6		N/A		25.2		N/A	
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	374		64.4		7.3		122		117		3.8	J	3.3	J	N/A		14.9		N/A		9.5		N/A	
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	0.68	U	3.8	J	0.18	U	0.73	U	0.79	U	0.14	U	0.16	U	N/A		0.59	J	N/A		0.39	J	N/A	
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	13,100	J	1,670		212		2,710	J	2,680	J	98.7	J	81.1		N/A		486		N/A		309	J	N/A	
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	53,400	J	7,080		837		12,900		17,000		482		433		N/A		1,740		N/A		1,260		N/A	
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	421		55.3		6.1		107		102		3.3	J	2.8	J	N/A		13.8		N/A		10.0		N/A	
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	528,000	J	101,000	J	12,600	J	164,000	J	214,000	J	7,290	J	3,700		N/A		18,600	J	N/A		13,700	J	N/A	
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	37,400	J	4,820		574		7,900		10,300		385		154		N/A		716		N/A		651		N/A	
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	225	J	15.7	J	4.6	J	37.3	J	39.1	J	2.7	J	3.5	J	N/A		21.2	J	N/A		15.9	J	N/A	
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	813	J	84.7	J	14.0	J	227	J	224	J	7.0	J	13.5	J	N/A		68.2	J	N/A		51.0	J	N/A	
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	5,800	J	826	J	100	J	2,010	J	2,000	J	54.9	J	93.1	J	N/A		490	J	N/A		347	J	N/A	
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	86,700	J	12,700	J	1,470	J	23,000	J	30,600	J	837	J	766	J	N/A		3,320	J	N/A		2,480	J	N/A	
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	210	J	42.7	J	8.7	J	68.2	J	62.4	J	3.5	J	67.0	J	N/A		164	J	N/A		109	J	N/A	
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	784	J	133	J	13.8	J	286	J	266	J	6.2	J	28.6	J	N/A		130	J	N/A		76.4	J	N/A	
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	11,500	J	1,320	J	196	J	2,540	J	2,510	J	165	J	77.3	J	N/A		443	J	N/A		308	J	N/A	
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	49,800	J	5,420	J	720	J	9,610	J	9,480	J	351	J	220	J	N/A		1,200	J	N/A		871	J	N/A	
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	**1,180**	J	**167**	J	**20.8**	J	**325**	J	**373**	J	**11.9**	J	**12.9**	J	N/A		**54.1**	J	N/A		**36.9**	J	N/A	
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	**1,181**	J	**167**	J	**20.8**	J	**325**	J	**373**	J	**11.9**	J	**13.0**	J	N/A		**54.5**	J	N/A		**37.1**	J	N/A	
Asbestos																																
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–	N/A		1.0	U	N/A		1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–	N/A		1.0	U	N/A		1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–	N/A		1.0	U	N/A		1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–	N/A		1		N/A		1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–	N/A		1.0	U	N/A		1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–	N/A		1.0	U	N/A		1.0	U	1.0	U	N/A		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Other Parameters																																
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–	7.7		N/A		N/A		5.3		6.2		N/A		N/A		N/A		N/A		N/A		4.8		N/A	
ORP	NONE	D1498	Alpha	mV	–	–	–	–	200	J	N/A		N/A		260	J	290	J	N/A		N/A		N/A		N/A		N/A		290	J	N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-147_0-.5		MHK_SS-148_0-.5		MHK_SS-149_0-.5		MHK_SS-150_0-.5		MHK_SS-151_0-.5		MHK_SS-152_0-.5		MHK_SS-153_0-.5		MHK_SS-154_0-.5		MHK_SS-155_0-.5		MHK_SS-156_0-.5		MHK_SS-157_0-.5		MHK_SS-158_0-.5	
					Human Health Risk		Ecological Risk		10/22/12		10/24/12		10/22/12		10/24/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/22/12	
									USEPA R1: 12100037		USEPA R1: 12100043		USEPA R1: 12100038		USEPA R1: 12100043		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100037		USEPA R1: 12100038		USEPA R1: 12100038		USEPA R1: 12100038	
									AB34975		AB35078		AB34986		AB35079		AB34966		AB34967		AB34968		AB34969		AB34970		AB34995		AB34996		AB34997	
									NHDPHS: A209694015		NHDPHS: A209776010		NHDPHS: A209694016		NHDPHS: A209776011		NHDPHS: A209694026		NHDPHS: A209694027		NHDPHS: A209694028		NHDPHS: A209694029		NHDPHS: A209694030							
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Alpha: L1219108-15		Alpha: L1219355-10		Alpha: L1219108-16		Alpha: L1219355-11		Alpha: L1219108-26		Alpha: L1219108-27		Alpha: L1219108-28		Alpha: L1219108-29		Alpha: L1219108-30							
									Contract: C0115				Contract: C0116				Contract: C0126		Contract: C0127		Contract: C0128		Contract: C0129		Contract: C0130							
									Contract: F0115				Contract: F0116				Contract: F0126		Contract: F0127		Contract: F0128		Contract: F0129		Contract: F0130							
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.24	U	N/A		0.13	U	N/A		0.12	U	0.12	U	0.13	U	0.11	U	0.12	U	N/A		N/A		N/A	
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	0.12	U	N/A		0.063	U	N/A		0.062	U	0.062	U	0.066	U	0.057	U	0.062	U	N/A		N/A		N/A	
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.40		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-147_0-.5		MHK_SS-148_0-.5		MHK_SS-149_0-.5		MHK_SS-150_0-.5		MHK_SS-151_0-.5		MHK_SS-152_0-.5		MHK_SS-153_0-.5		MHK_SS-154_0-.5		MHK_SS-155_0-.5		MHK_SS-156_0-.5		MHK_SS-157_0-.5		MHK_SS-158_0-.5	
					Human Health Risk		Ecological Risk		10/22/12		10/24/12		10/22/12		10/24/12		10/23/12		10/23/12		10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/22/12	
									USEPA R1: 12100037 AB34975		USEPA R1: 12100043 AB35078		USEPA R1: 12100038 AB34986		USEPA R1: 12100043 AB35079		USEPA R1: 12100037 AB34966		USEPA R1: 12100037 AB34967		USEPA R1: 12100037 AB34968		USEPA R1: 12100037 AB34969		USEPA R1: 12100037 AB34970		USEPA R1: 12100038 AB34995		USEPA R1: 12100038 AB34996		USEPA R1: 12100038 AB34997	
									NHDPHS: A209694015		NHDPHS: A209776010		NHDPHS: A209694016		NHDPHS: A209776011		NHDPHS: A209694026		NHDPHS: A209694027		NHDPHS: A209694028		NHDPHS: A209694029		NHDPHS: A209694030						
									Alpha: L1219108-15		Alpha: L1219355-10		Alpha: L1219108-16		Alpha: L1219355-11		Alpha: L1219108-26		Alpha: L1219108-27		Alpha: L1219108-28		Alpha: L1219108-29		Alpha: L1219108-30						
									Contract: C0115				Contract: C0116				Contract: C0126		Contract: C0127		Contract: C0128		Contract: C0129		Contract: C0130						
									Contract: F0115				Contract: F0116				Contract: F0126		Contract: F0127		Contract: F0128		Contract: F0129		Contract: F0130						
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	0.48		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.74		N/A		0.13		N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.43		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.28		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.69		N/A		0.38		N/A		0.22	U	0.22	U	0.41		0.18	U	0.21	U	N/A		N/A		N/A	
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	1.5		N/A		0.23		N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.61		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.38	U	N/A		0.22	U	N/A		0.22	U	0.22	U	0.23	U	0.18	U	0.21	U	N/A		N/A		N/A	
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.38	U	N/A		0.22	U	N/A		0.22	U	0.22	U	0.23	U	0.18	U	0.21	U	N/A		N/A		N/A	
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.38	U	N/A		0.22	U	N/A		0.22	U	0.22	U	0.23	U	0.18	U	0.21	U	N/A		N/A		N/A	
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.94		N/A		0.16		N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.36		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	0.38	U	N/A		0.22	U	N/A		0.22	U	0.22	U	0.23	U	0.18	U	0.21	U	N/A		N/A		N/A	
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.76	U	N/A		0.45	U	N/A		0.43	U	0.43	U	0.45	U	0.36	U	0.42	U	N/A		N/A		N/A	
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.53		N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.91		N/A		0.14		N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs): Human Health Risk – Residential RSL	Human Health Risk – NHDES Soil Standards	Ecological Risk – Lowest EcoSSL	Ecological Risk – Other Benchmark†
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–
Metals								
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130		
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59
PCBs								
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–
Dioxins/Furans								
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199
Asbestos								
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–
Other Parameters								
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–
ORP	NONE	D1498	Alpha	mV	–	–	–	–

Analyte	MHK_SS-147_0-.5		MHK_SS-148_0-.5		MHK_SS-149_0-.5		MHK_SS-150_0-.5		MHK_SS-151_0-.5		MHK_SS-152_0-.5	
	10/22/12		10/24/12		10/22/12		10/24/12		10/23/12		10/23/12	
	USEPA R1: 12100037 AB34975		USEPA R1: 12100043 AB35078		USEPA R1: 12100038 AB34986		USEPA R1: 12100043 AB35079		USEPA R1: 12100037 AB34966		USEPA R1: 12100037 AB34967	
	NHDPHS: A209694015		NHDPHS: A209776010		NHDPHS: A209694016		NHDPHS: A209776011		NHDPHS: A209694026		NHDPHS: A209694027	
	Alpha: L1219108-15		Alpha: L1219355-10		Alpha: L1219108-16		Alpha: L1219355-11		Alpha: L1219108-26		Alpha: L1219108-27	
	Contract: C0115				Contract: C0116				Contract: C0126		Contract: C0127	
	Contract: F0115				Contract: F0116				Contract: F0126		Contract: F0127	
	Result	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Trichlorophenol (2,4,5-)	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U
Trichlorophenol (2,4,6-)	0.19	U	N/A		0.11	U	N/A		0.11	U	0.11	U
Metals												
Antimony	**2.84**		**0.826**		**0.470**		**0.423**		0.186	U	0.202	U
Arsenic	**20.6**		**9.58**		**7.92**		**7.77**		**5.19**		**4.66**	
Barium	**75.9**		**36.5**		**19.7**		**25.1**		**22.8**		**36.6**	
Cadmium	**5.52**		**2.23**		**0.7479**		**1.24**		0.1863	U	0.2022	U
Chromium (Total)	**400**		**270**		**74**		**92**		11		11	
Chromium (Hexavalent)	N/A		N/A		N/A		N/A		0.88	U	0.89	U
Lead	**223**		**54.5**		**42.6**		**29.1**		**5.04**		**3.28**	
Manganese	**803**		**290**		91.2		145		121		**380**	
Mercury	**1.43**		0.0560		**0.2983**		**0.2153**		0.0551	U	0.0579	U
Thallium	0.269	U	0.253	U	0.237	U	0.255	U	0.186	U	0.202	U
Vanadium	**24.3**		**8.58**		**8.82**		**8.47**		**9.34**		**9.24**	
PCBs												
PCB-77	2,540		N/A		113	J	N/A		2.1	J	2.2	U
PCB-81	64.0	J	N/A		3.0	J	N/A		2.0	U	2.2	U
PCB-105	5,620		N/A		154		N/A		5.1	J	1.8	J
PCB-114	249		N/A		12.0	J	N/A		2.0	U	2.2	U
PCB-118	61,200		N/A		818		N/A		13.0	J	5.5	J
PCB-123	330		N/A		14.0	J	N/A		2.0	U	2.2	U
PCB-126	3.5	U	N/A		4.2	J	N/A		2.0	U	2.2	U
PCB-156/157	1,870		N/A		105	J	N/A		2.3	J	1.8	J
PCB-167	671		N/A		40.0	J	N/A		0.96	J	1.1	J
PCB-169	3.5	U	N/A		2.2	J	N/A		2.0	U	2.2	U
PCB-189	137	J	N/A		9.0	J	N/A		2.0	UJ	2.2	UJ
Total MoCB	223	J	N/A		22.6	J	N/A		4.9	J	ND	
Total DiCB	42,500	J	N/A		1,680	J	N/A		52.7	J	ND	
Total TrCB	65,900	J	N/A		4,390	J	N/A		51.4	J	ND	
Total TeCB	8,920	J	N/A		463	J	N/A		6.9	J	ND	
Total PeCB	84,100	J	N/A		4,630	J	N/A		61.5	J	31.5	J
Total HxCB	60,700	J	N/A		3,900	J	N/A		70.9	J	54.8	J
Total HpCB	25,900	J	N/A		1,790	J	N/A		2.8	J	14.2	J
Total OcCB	12,000	J	N/A		805	J	N/A		17.1	J	5.3	J
Total NoCB	1,150	J	N/A		89.1	J	N/A		4.8	J	3.5	J
DeCB	1,440	J	N/A		133	J	N/A		4.7	J	4.3	J
Total PCBs ^	**303,000**	J	N/A		**17,900**	J	N/A		278	J	114	J
TE PCBs #	2.37	J	N/A		0.53	J	N/A		0.00085	J	0.00031	J
Dioxins/Furans												
2,3,7,8-TCDD	8.0		N/A		0.63	J	N/A		0.05	J	0.04	U
2,3,7,8-TCDF	59.7		N/A		6.2		N/A		0.27	J	0.09	J
1,2,3,7,8-PeCDF	7.1	J	N/A		0.65	J	N/A		0.10	J	0.06	UJ
1,2,3,7,8-PeCDD	31.3		N/A		1.4	J	N/A		0.06	U	0.05	U
2,3,4,7,8-PeCDF	14.4		N/A		1.1	J	N/A		0.07	J	0.04	J
1,2,3,4,7,8-HxCDF	84.8		N/A		4.6	J	N/A		0.25	J	0.07	J
1,2,3,6,7,8-HxCDF	42.8		N/A		2.0	J	N/A		0.14	J	0.04	U
1,2,3,4,7,8-HxCDD	95.2		N/A		4.5	J	N/A		0.18	J	0.08	U
1,2,3,6,7,8-HxCDD	383		N/A		20.0		N/A		0.70	J	0.09	U
1,2,3,7,8,9-HxCDD	255		N/A		11.4		N/A		0.53	J	0.07	U
2,3,4,6,7,8-HxCDF	77.4		N/A		3.7	J	N/A		0.21	J	0.05	J
1,2,3,7,8,9-HxCDF	1.5	J	N/A		0.33	U	N/A		0.11	U	0.06	U
1,2,3,4,6,7,8-HpCDF	2,470		N/A		139		N/A		5.6	J	0.60	J
1,2,3,4,6,7,8-HpCDD	10,000		N/A		662		N/A		24.0		2.3	J
1,2,3,4,7,8,9-HpCDF	88.5		N/A		4.3	J	N/A		0.23	J	0.07	U
OCDD	85,700	J	N/A		6,510	J	N/A		240		25.9	J
OCDF	4,430		N/A		635		N/A		10.2	J	1.2	J
Total TCDDs	68.8	J	N/A		5.4	J	N/A		0.30	J	0.06	UJ
Total PeCDDs	254	J	N/A		36.9	J	N/A		0.68	J	0.09	UJ
Total HxCDDs	2,720	J	N/A		156	J	N/A		5.5	J	0.85	J
Total HpCDDs	21,300	J	N/A		1,200	J	N/A		44.2	J	4.3	J
Total TCDFs	460	J	N/A		31.1	J	N/A		2.1	J	0.38	J
Total PeCDFs	531	J	N/A		27.6	J	N/A		1.3	J	0.39	J
Total HxCDFs	2,220	J	N/A		123	J	N/A		5.1	J	0.70	J
Total HpCDFs	6,580	J	N/A		398	J	N/A		15.1	J	1.5	J
TE Dioxins/Furans #	**296**	J	N/A		**17.8**	J	N/A		**0.675**	J	0.0701	J
TE Dioxin/Furan + TE PCBs #	**298**	J	N/A		**18.3**	J	N/A		**0.676**	J	0.0704	J
Asbestos												
Actinolite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Amosite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Anthophylite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chrysotile	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Crocidolite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tremolite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Other Parameters												
pH	N/A		N/A		N/A		N/A		5.3		4.6	
ORP	N/A		N/A		N/A		N/A		260	J	270	J

Analyte	MHK_SS-153_0-.5		MHK_SS-154_0-.5		MHK_SS-155_0-.5		MHK_SS-156_0-.5		MHK_SS-157_0-.5		MHK_SS-158_0-.5	
	10/23/12		10/23/12		10/23/12		10/22/12		10/22/12		10/22/12	
	USEPA R1: 12100037 AB34968		USEPA R1: 12100037 AB34969		USEPA R1: 12100037 AB34970		USEPA R1: 12100038 AB34995		USEPA R1: 12100038 AB34996		USEPA R1: 12100038 AB34997	
	NHDPHS: A209694028		NHDPHS: A209694029		NHDPHS: A209694030							
	Alpha: L1219108-28		Alpha: L1219108-29		Alpha: L1219108-30							
	Contract: C0128		Contract: C0129		Contract: C0130							
	Contract: F0128		Contract: F0129		Contract: F0130							
	Result	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Trichlorophenol (2,4,5-)	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Trichlorophenol (2,4,6-)	0.11	U	0.090	U	0.11	U	N/A		N/A		N/A	
Metals												
Antimony	0.205	U	0.191	U	0.191	U	N/A		N/A		N/A	
Arsenic	**4.99**		**4.25**		**5.38**		N/A		N/A		N/A	
Barium	**25.8**		**20.0**		**39.5**		N/A		N/A		N/A	
Cadmium	**0.3943**		0.1915	U	**0.2658**		N/A		N/A		N/A	
Chromium (Total)	24		18		**73**		N/A		N/A		N/A	
Chromium (Hexavalent)	0.91	U	0.89	U	0.89	U	N/A		N/A		N/A	
Lead	**35.6**		**13.1**		**20.7**		N/A		N/A		N/A	
Manganese	**228**		**259**		**344**		N/A		N/A		N/A	
Mercury	**0.2481**		0.0866		**0.2686**		N/A		N/A		N/A	
Thallium	0.205	U	0.191	U	0.191	U	N/A		N/A		N/A	
Vanadium	**15.1**		**11.7**		**8.86**		N/A		N/A		N/A	
PCBs												
PCB-77	30.0	J	3.5	J	7.5	J	N/A		N/A		N/A	
PCB-81	2.2	U	2.2	U	2.2	U	N/A		N/A		N/A	
PCB-105	67.0	J	14.0	J	22.0	J	N/A		N/A		N/A	
PCB-114	2.7	J	2.2	U	2.2	U	N/A		N/A		N/A	
PCB-118	179		37.0	J	64.0	J	N/A		N/A		N/A	
PCB-123	5.5	J	2.0	J	2.5	J	N/A		N/A		N/A	
PCB-126	2.7	J	2.2	U	0.97	J	N/A		N/A		N/A	
PCB-156/157	40.0	J	14.0	J	24.0	J	N/A		N/A		N/A	
PCB-167	16.0	J	8.7	J	11.0	J	N/A		N/A		N/A	
PCB-169	1.2	J	0.82	J	2.2	U	N/A		N/A		N/A	
PCB-189	4.1	J	2.6	J	2.6	J	N/A		N/A		N/A	
Total MoCB	7.1	J	1.0	J	4.7	J	N/A		N/A		N/A	
Total DiCB	324	J	10.8	J	372	J	N/A		N/A		N/A	
Total TrCB	1,200	J	50.6	J	556	J	N/A		N/A		N/A	
Total TeCB	97.7	J	8.7	J	37.2	J	N/A		N/A		N/A	
Total PeCB	982	J	220	J	534	J	N/A		N/A		N/A	
Total HxCB	1,380	J	524	J	920	J	N/A		N/A		N/A	
Total HpCB	718	J	401	J	437	J	N/A		N/A		N/A	
Total OcCB	445	J	210	J	209	J	N/A		N/A		N/A	
Total NoCB	228	J	33.3	J	37.6	J	N/A		N/A		N/A	
DeCB	151	J	51.8	J	79.7	J	N/A		N/A		N/A	
Total PCBs ^	**5,530**	J	**1,510**	J	**3,190**	J	N/A		N/A		N/A	
TE PCBs #	0.318	J	0.0273	J	0.102	J	N/A		N/A		N/A	
Dioxins/Furans												
2,3,7,8-TCDD	0.23	J	0.05	U	0.36	J	N/A		N/A		N/A	
2,3,7,8-TCDF	4.0		1.0	J	1.6		N/A		N/A		N/A	
1,2,3,7,8-PeCDF	0.82	J	0.21	J	0.5	J	N/A		N/A		N/A	
1,2,3,7,8-PeCDD	0.83	J	0.25	J	2.0	J	N/A		N/A		N/A	
2,3,4,7,8-PeCDF	1.1	J	0.31	J	0.71	J	N/A		N/A		N/A	
1,2,3,4,7,8-HxCDF	3.0	J	1.2	J	3.7	J	N/A		N/A		N/A	
1,2,3,6,7,8-HxCDF	1.3	J	0.53	J	2.5	J	N/A		N/A		N/A	
1,2,3,4,7,8-HxCDD	2.0	J	0.54	J	4.6	J	N/A		N/A		N/A	
1,2,3,6,7,8-HxCDD	7.8		1.9	J	19.6		N/A		N/A		N/A	
1,2,3,7,8,9-HxCDD	5.8		1.5	J	14.9		N/A		N/A		N/A	
2,3,4,6,7,8-HxCDF	2.3	J	1.1	J	8.8		N/A		N/A		N/A	
1,2,3,7,8,9-HxCDF	0.13	U	0.14	U	0.26	U	N/A		N/A		N/A	
1,2,3,4,6,7,8-HpCDF	52.2	J	26.8	J	178	J	N/A		N/A		N/A	
1,2,3,4,6,7,8-HpCDD	235		70.6		852		N/A		N/A		N/A	
1,2,3,4,7,8,9-HpCDF	1.7	J	0.95	J	6.7		N/A		N/A		N/A	
OCDD	2,130		808		12,000	J	N/A		N/A		N/A	
OCDF	91.9		112		577		N/A		N/A		N/A	
Total TCDDs	3.1	J	0.59	J	4.0	J	N/A		N/A		N/A	
Total PeCDDs	9.4	J	2.6	J	21.0	J	N/A		N/A		N/A	
Total HxCDDs	65.0	J	16.0	J	159	J	N/A		N/A		N/A	
Total HpCDDs	428	J	127	J	1,550	J	N/A		N/A		N/A	
Total TCDFs	19.5	J	6.7	J	11.3	J	N/A		N/A		N/A	
Total PeCDFs	18.1	J	5.3	J	23.9	J	N/A		N/A		N/A	
Total HxCDFs	50.7	J	21.0	J	149	J	N/A		N/A		N/A	
Total HpCDFs	133	J	82.8	J	554	J	N/A		N/A		N/A	
TE Dioxins/Furans #	**7.59**	J	**2.39**	J	**22.3**	J	N/A		N/A		N/A	
TE Dioxin/Furan + TE PCBs #	**7.91**	J	**2.42**	J	**22.4**	J	N/A		N/A		N/A	
Asbestos												
Actinolite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Amosite	1.0	U	1.0	U	1.0	U	1.0	U	2		1.0	U
Anthophylite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chrysotile	1.0	U	1.0	U	1.0	U	Trace		1.0	U	2	
Crocidolite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tremolite	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Other Parameters												
pH	4.6		4.4		6.2		N/A		N/A		N/A	
ORP	300	J	300	J	270	J	N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-159_0-.5		MHK_SS-160_0-.5		MHK_SS-160_0-.5 Duplicate (OW-205)		MHK_SS-161_0-.5		MHK_SS-162_0-.5		MHK_SS-163_0-.5		MHK_SS-164_0-.5		MHK_SS-165_0-.5		MHK_SS-166_0-.5		MHK_SS-167_0-.5		TRIP BLANK		EQUIP BLANK	
					Human Health Risk		Ecological Risk		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/01/12		10/23/12	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	USEPA R1: 12100038 AB34998		USEPA R1: 12100038 AB34999		USEPA R1: 12100038 AB35007		USEPA R1: 12100038 AB35000		USEPA R1: 12100038 AB35001		USEPA R1: 12100038 AB35002		USEPA R1: 12100038 AB35003		USEPA R1: 12100038 AB35004		USEPA R1: 12100038 AB35005		USEPA R1: 12100038 AB35006		USEPA R1: 12100038 AB34992		USEPA R1: 12100038 AB34980	
																															NHDPHS: A209694032	
																															Alpha: L1219108-32	
																															Contract: C0132	
																															Contract: F0132	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																																
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Carbon tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	290	6	NA	13.1	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Isopropyltoluene (p-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichloro-1,2,2-Trifluoroethane (1,1,2-)	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.10	U	2.0 (µg/L)	U
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.050	U	1.0 (µg/L)	U
SVOCs																																
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (µg/L)	U

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-159_0-.5		MHK_SS-160_0-.5		MHK_SS-160_0-.5 Duplicate (OW-205)		MHK_SS-161_0-.5		MHK_SS-162_0-.5		MHK_SS-163_0-.5		MHK_SS-164_0-.5		MHK_SS-165_0-.5		MHK_SS-166_0-.5		MHK_SS-167_0-.5		TRIP BLANK		EQUIP BLANK	
					Human Health Risk		Ecological Risk		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/01/12		10/23/12	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	USEPA R1: 12100038 AB34998		USEPA R1: 12100038 AB34999		USEPA R1: 12100038 AB35007		USEPA R1: 12100038 AB35000		USEPA R1: 12100038 AB35001		USEPA R1: 12100038 AB35002		USEPA R1: 12100038 AB35003		USEPA R1: 12100038 AB35004		USEPA R1: 12100038 AB35005		USEPA R1: 12100038 AB35006		USEPA R1: 12100038 AB34992		USEPA R1: 12100038 AB34980	
																															NHDPHS: A209694032	
																															Alpha: L1219108-32	
																															Contract: C0132	
																															Contract: F0132	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.015	0.7	NA	1.52	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.0 (ug/L)	U
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Bis(2-Ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	19,000	88	NA	2.96	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	2.4	7	NA	0.546	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.0 (ug/L)	U
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.0 (ug/L)	U
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.0 (ug/L)	U
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	310	96	NA	3.24	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	310	0.7	NA	163	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5.0 (ug/L)	U
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	3.6	5	NA	0.0994	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		10.0 (ug/L)	U
N-nitrosodimethylamine	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
N-nitroso-di-n-propylamine	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
N-Nitrosodiphenylamine	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.89	3	2.1	0.119	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	CAS No.	Method	Lab	Units	Project Action Limits (PALs)				MHK_SS-159_0-.5		MHK_SS-160_0-.5		MHK_SS-160_0-.5 Duplicate (OW-205)		MHK_SS-161_0-.5		MHK_SS-162_0-.5		MHK_SS-163_0-.5		MHK_SS-164_0-.5		MHK_SS-165_0-.5		MHK_SS-166_0-.5		MHK_SS-167_0-.5		TRIP BLANK		EQUIP BLANK	
					Human Health Risk		Ecological Risk		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/22/12		10/01/12		10/23/12	
					Residential RSL	NHDES Soil Standards	Lowest EcoSSL	Other Benchmark†	USEPA R1: 12100038 AB34998		USEPA R1: 12100038 AB34999		USEPA R1: 12100038 AB35007		USEPA R1: 12100038 AB35000		USEPA R1: 12100038 AB35001		USEPA R1: 12100038 AB35002		USEPA R1: 12100038 AB35003		USEPA R1: 12100038 AB35004		USEPA R1: 12100038 AB35005		USEPA R1: 12100038 AB35006		USEPA R1: 12100038 AB34992		USEPA R1: 12100038 AB34980	
																															NHDPHS: A209694032	
																															Alpha: L1219108-32	
																															Contract: C0132	
																															Contract: F0132	
									Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.5 (ug/L)	U
Metals																																
Antimony	7440-36-0	200.8	NHDPHS	mg/kg dry	31	9	0.27	0.142	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0030 (mg/L)	U
Arsenic	7440-38-2	200.8	NHDPHS	mg/kg dry	0.39	11	18	5.7	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0010 (mg/L)	U
Barium	7440-39-3	200.8	NHDPHS	mg/kg dry	15,000	1,000	330	1.04	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0050 (mg/L)	U
Cadmium	7440-43-9	200.8	NHDPHS	mg/kg dry	70	33	0.36	0.00222	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0020 (mg/L)	U
Chromium (Total)	7440-47-3	6010C	Alpha	mg/kg dry	NA	1,000 (III) *	34 *	34 *	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.01 (mg/L)	U
Chromium (Hexavalent)	18540-29-9	7196A	Alpha	mg/kg dry	0.29	130			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.01 (mg/L)	U
Lead	7439-92-1	200.8	NHDPHS	mg/kg dry	400	400	11	0.0537	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0010 (mg/L)	U
Manganese	7439-96-5	200.8	NHDPHS	mg/kg dry	1,800	1,000	220	220	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0050 (mg/L)	U
Mercury	7439-97-6	7471A	NHDPHS	mg/kg dry	23	7	NA	0.1	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0005 (mg/L) (Method 245.1)	U
Thallium	7440-28-0	200.8	NHDPHS	mg/kg dry	0.78	10	NA	0.0569	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0010 (mg/L)	U
Vanadium	7440-62-2	200.8	NHDPHS	mg/kg dry	390	NA	7.8	1.59	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0050 (mg/L)	U
PCBs																																
PCB-77	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12.0 (pg/L)	J
PCB-81	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.3 (pg/L)	J
PCB-105	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		13.0 (pg/L)	J
PCB-114	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.1 (pg/L)	J
PCB-118	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		13.0 (pg/L)	J
PCB-123	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.1 (pg/L)	J
PCB-126	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		9.5 (pg/L)	J
PCB-156/157	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		17.0 (pg/L)	J
PCB-167	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.8 (pg/L)	J
PCB-169	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8.3 (pg/L)	J
PCB-189	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		7.7 (pg/L)	J
Total MoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		40.6 (pg/L)	J
Total DiCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		ND	
Total TrCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		ND	
Total TeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		23.2 (pg/L)	J
Total PeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		106 (pg/L)	J
Total HxCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		55.0 (pg/L)	J
Total HpCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		7.7 (pg/L)	J
Total OcCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		7.7 (pg/L)	J
Total NoCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		15.3 (pg/L)	J
DeCB	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		15.5 (pg/L)	J
Total PCBs ^	–	CBC01.2	USEPA CL	ng/kg dry	220,000	1,000,000	NA	332	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		271 (pg/L)	J
TE PCBs #	–	CBC01.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1.21 (pg/L)	J
Dioxins/Furans																																
2,3,7,8-TCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.48 (pg/L)	U
2,3,7,8-TCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.34 (pg/L)	U
1,2,3,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.38 (pg/L)	U
1,2,3,7,8-PeCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.26 (pg/L)	U
2,3,4,7,8-PeCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.34 (pg/L)	U
1,2,3,4,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.26 (pg/L)	U
1,2,3,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.26 (pg/L)	U
1,2,3,4,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.44 (pg/L)	U
1,2,3,6,7,8-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.44 (pg/L)	U
1,2,3,7,8,9-HxCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.4 (pg/L)	U
2,3,4,6,7,8-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.26 (pg/L)	U
1,2,3,7,8,9-HxCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.32 (pg/L)	U
1,2,3,4,6,7,8-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.42 (pg/L)	J
1,2,3,4,6,7,8-HpCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1.4 (pg/L)	J
1,2,3,4,7,8,9-HpCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.46 (pg/L)	U
OCDD	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12.2 (pg/L)	J
OCDF	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.2 (pg/L)	J
Total TCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.62 (pg/L)	UJ
Total PeCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.3 (pg/L)	UJ
Total HxCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.1 (pg/L)	J
Total HpCDDs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2.3 (pg/L)	J
Total TCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.52 (pg/L)	J
Total PeCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.16 (pg/L)	J
Total HxCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1.5 (pg/L)	J
Total HpCDFs	–	SOW DLM02.2	USEPA CL	ng/kg dry	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.80 (pg/L)	J
TE Dioxins/Furans #	–	SOW DLM02.2	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		0.0225 (pg/L)	J
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	4.5	1,000	NA	0.199	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1.23 (pg/L)	J
Asbestos																																
Actinolite	12172-67-7	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
Amosite	12172-73-5	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
Anthophylite	17068-78-9	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
Chrysotile	12001-29-5	$ASBES	USEPA R1	%	–	–	–	–	2		1.0	U	1.0	U	1		Trace		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
Crocidolite	12001-28-4	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
Tremolite	14567-73-8	$ASBES	USEPA R1	%	–	–	–	–	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A		N/A	
Other Parameters																																
pH	12408-02-5	9045D	Alpha	S.U.	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
ORP	NONE	D1498	Alpha	mV	–	–	–	–	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	

TABLE 3 – Revision 1
Summary of Analytical Results – Soil
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Notes:
1. Samples were collected by Sanborn Head on the dates indicated and were analyzed by the laboratories and methods indicated. Refer to the analytical laboratory reports for full method references. Laboratory report numbers and sample numbers are presented in the header beneath the sample collection dates.
"USEPA R1" indicates the United States Environmental Protection Agency Region 1 New England Region Laboratory in North Chelmsford, Massachusetts.
"Contract" indicates the USEPA contract laboratory, AGAT Laboratories, Saint-Laurent, Quebec, Canada.
"NHDPHS" indicates the New Hampshire Division of Public Health Services laboratory in Concord, New Hampshire.
"Alpha" indicates Alpha Analytical of Westboro, Massachusetts.
2. NHDPHS data were validated by NHDPHS personnel using USEPA Region 1 Modified Tier 1.
USEPA R1 data were reviewed by USEPA R1 personnel in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.
Contract lab data were validated by USEPA in accordance with Stage 4 Manual Validation (dioxins/furans and polychlorinated biphenyl [PCB] congeners) or Stage 2A Manual Validation (PCB homologues).
Alpha data were validated by USEPA personnel using Stage 2A Manual Validation.
3. "U" indicates the analyte was not detected above the indicated laboratory reporting limit, contract required quantitation limit (CRQL – for PCB congeners/homologues), or estimated detection limit (EDL - for dioxins/furans).
"J" indicates an estimated value. Refer to the data validation report for further information.
"N/A" indicates the sample was not analyzed for this parameter.
4. Only analytes which were detected or with an established Project Action Limit (PAL) are displayed. Refer to the analytical laboratory reports and/or data validation reports for the full list of analytes.
5. VOC, SVOC, and metals sediment concentrations are presented in milligrams per kilogram (mg/kg) on a dry weight basis, which are equivalent to parts per million (ppm); equipment blank and trip blank concentrations are presented in milligrams per liter (mg/L), which are also equivalent to ppm. PCB homologue/congener and dioxin/furan sediment concentrations are presented in nanograms per kilogram (ng/kg) on a dry weight basis, which are equivalent to parts per trillion (ppt); equipment blank concentrations are presented in picograms per liter (pg/L), which are equivalent to parts per quadrillion (ppq). pH is presented in standard units (S.U.); and oxidation reduction potential (ORP) is presented in milliVolts (mV). pH and ORP were analyzed as part of the hexavalent chromium analysis.
6. PALs are from Sanborn Head's "Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, New Hampshire, NHDES Site No. 198404002, USEPA QA Tracking # 12121," dated September 2012. PALs provided to Sanborn Head by NHDES on July 19, 2012. Chromium PALs for ecological risk were provided by the USEPA via an e-mail from Rick Sugatt dated August 9, 2012. The following notes apply to the PALs:
"†" Buchman, M. F. 2008. NOAA Screening Quick Reference Tables, NOAA OR&R Report 08-1, Seattle, WA, Office of Response and Restoration Div., NOAA, 34pp. (http://response.restoration.noaa.gov/sites/default/files/SQuiRTs.pdf)
RSL = Regional Screening Level (http://www.epa.gov/region9/superfund/prg/index.html)
EcoSSL = EPA Ecological Soil Screening Level (http://www.epa.gov/ecotox/ecossl/)
NHDES Soil Standards = Soil Remediation Standards promulgated in Env-Or 600 (July 2008, with February 2013 RCMP update - http://des.nh.gov/organization/divisions/waste/hwrb/documents/rcmp.pdf)
"–" indicates PALs were not established for this analyte.
NA = not applicable
7. Gray font indicates not detected or not analyzed.
Black font indicates detected at a concentration below the lowest PAL, or detected parameter for which no PAL is established.
Bold black font indicates detected concentration that exceeds the lowest PAL.
8. The PALs listed for 3,4-methylphenol are applicable to 4-methylphenol. USEPA R1 reports the combined concentration of the two isomers.
9. Yellow shading indicates the lowest applicable PAL.
Blue shading indicates the detected concentration exceeds the lowest PAL.
Orange shading indicates the reporting limit exceeds the lowest PAL.
10. "*" Indicates as part of this sampling event, samples were analyzed for total chromium, with a subset of samples also analyzed for hexavalent chromium. Chromium results are herein compared to the indicated PAL(s). Total chromium results with no corresponding hexavalent chromium results which exceed the PAL, may necessitate subsequent sampling for chromium speciation as part of a separate phase of work.
11. "#" indicates toxic equivalency (TEQ) concentrations were calculated by the USEPA during data validation using the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds," Society of Toxicology, July 7, 2006. The TEQ values were calculated using the final validated data and include the positive results and estimated values. The TEQ values were estimated (J) when any individual congener is estimated.
12. The summary table provides: total PCB concentrations based on the sum of PCB homologue concentrations, TE PCB concentrations calculated by USEPA as indicated in note 11 based on the detected dioxin-like PCB congeners, TE dioxin/furan concentrations calculated by USEPA as indicated in note 11 based on the detected dioxin/furan congeners, and the sum of TE Dioxins/Furans and TE PCB concentrations.
13. Refer to the expanded data table or data validation reports for concentrations of individual PCB homologues and congeners, and individual dioxin/furan congeners.

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-01_0-.3		MHK_SED-02_0-.3		MHK_SED-03_0-.3		MHK_SED-04_0-.3		MHK_SED-05_0-.3		MHK_SED-06_0-.3		MHK_SED-07_0-.3		MHK_SED-08_0-.3		MHK_SED-09_0-.3		MHK_SED-10_0-.3	
					Ecological Risk		10/08/12		10/08/12		10/08/12		10/08/12		10/08/12		10/09/12		10/08/12		10/08/12		10/08/12		10/08/12	
							USEPA R1: 12100010 AB34165		USEPA R1: 12100010 AB34166		USEPA R1: 12100010 AB34167		USEPA R1: 12100010 AB34168		USEPA R1: 12100010 AB34169		USEPA R1: 12100010 AB34170		USEPA R1: 12100010 AB34171		USEPA R1: 12100010 AB34172		USEPA R1: 12100010 AB34173		USEPA R1: 12100010 AB34174	
							NHDPHS: A209326001		NHDPHS: A209326002		NHDPHS: A209326003		NHDPHS: A209326004		NHDPHS: A209326005		NHDPHS: A209326006		NHDPHS: A209326007		NHDPHS: A209326008		NHDPHS: A209326009		NHDPHS: A209326010	
					EPA R3	TEC	Alpha: L1218098-01		Alpha: L1218098-02		Alpha: L1218098-03		Alpha: L1218098-04		Alpha: L1218098-05		Alpha: L1218098-06		Alpha: L1218098-07		Alpha: L1218098-08		Alpha: L1218098-09		Alpha: L1218098-10	
							Contract: C0001		Contract: C0002		Contract: C0003		Contract: C0004		Contract: C0005		Contract: C0006		Contract: C0007		Contract: C0008		Contract: C0009		Contract: C0010	
							Contract: F0001		Contract: F0002		Contract: F0003		Contract: F0004		Contract: F0005		Contract: F0006		Contract: F0007		Contract: F0008		Contract: F0009		Contract: F0010	
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																										
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Carbon Tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	0.00842	NA	0.099	U	0.088	U	0.080	U	0.079	U	**0.11**		0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	0.0165	NA	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	0.599	NA	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Isopropyltoluene (para-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	0.176	NA	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-01_0-.3		MHK_SED-02_0-.3		MHK_SED-03_0-.3		MHK_SED-04_0-.3		MHK_SED-05_0-.3		MHK_SED-06_0-.3		MHK_SED-07_0-.3		MHK_SED-08_0-.3		MHK_SED-09_0-.3		MHK_SED-10_0-.3	
					Ecological Risk		10/08/12		10/08/12		10/08/12		10/08/12		10/08/12		10/09/12		10/08/12		10/08/12		10/08/12		10/08/12	
							USEPA R1: 12100010 AB34165		USEPA R1: 12100010 AB34166		USEPA R1: 12100010 AB34167		USEPA R1: 12100010 AB34168		USEPA R1: 12100010 AB34169		USEPA R1: 12100010 AB34170		USEPA R1: 12100010 AB34171		USEPA R1: 12100010 AB34172		USEPA R1: 12100010 AB34173		USEPA R1: 12100010 AB34174	
							NHDPHS: A209326001		NHDPHS: A209326002		NHDPHS: A209326003		NHDPHS: A209326004		NHDPHS: A209326005		NHDPHS: A209326006		NHDPHS: A209326007		NHDPHS: A209326008		NHDPHS: A209326009		NHDPHS: A209326010	
					EPA R3	TEC	Alpha: L1218098-01		Alpha: L1218098-02		Alpha: L1218098-03		Alpha: L1218098-04		Alpha: L1218098-05		Alpha: L1218098-06		Alpha: L1218098-07		Alpha: L1218098-08		Alpha: L1218098-09		Alpha: L1218098-10	
							Contract: C0001		Contract: C0002		Contract: C0003		Contract: C0004		Contract: C0005		Contract: C0006		Contract: C0007		Contract: C0008		Contract: C0009		Contract: C0010	
							Contract: F0001		Contract: F0002		Contract: F0003		Contract: F0004		Contract: F0005		Contract: F0006		Contract: F0007		Contract: F0008		Contract: F0009		Contract: F0010	
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
chloro-1,2,2-Trifluoroethane (1,1,	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.20	U	0.18	U	0.16	U	0.16	U	0.22	U	0.16	U	0.17	U	0.15	U	0.10	U	0.16	U
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.099	U	0.088	U	0.080	U	0.079	U	0.11	U	0.078	U	0.083	U	0.074	U	0.051	U	0.079	U
SVOCs																										
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.12		0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.36		0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.15	0.15	0.11	U	0.11	U	0.11	U	**0.32**		0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.13		0.41		0.14		0.11	U	0.14		0.12		0.11	U	0.11	U
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.20		0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.15		0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.21	U	0.22	U	0.22	U	0.23	U	0.28	U	0.22	U	0.24	U	0.21	U	0.21	U	0.21	U
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Bis(2-ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11		0.37		0.14	U	0.11	U	0.12	U	0.11		0.11	U	0.11	U
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	0.0165	NA	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-01_0-.3		MHK_SED-02_0-.3		MHK_SED-03_0-.3		MHK_SED-04_0-.3		MHK_SED-05_0-.3		MHK_SED-06_0-.3		MHK_SED-07_0-.3		MHK_SED-08_0-.3		MHK_SED-09_0-.3		MHK_SED-10_0-.3	
					Ecological Risk		10/08/12		10/08/12		10/08/12		10/08/12		10/08/12		10/09/12		10/08/12		10/08/12		10/08/12		10/08/12	
							USEPA R1: 12100010 AB34165		USEPA R1: 12100010 AB34166		USEPA R1: 12100010 AB34167		USEPA R1: 12100010 AB34168		USEPA R1: 12100010 AB34169		USEPA R1: 12100010 AB34170		USEPA R1: 12100010 AB34171		USEPA R1: 12100010 AB34172		USEPA R1: 12100010 AB34173		USEPA R1: 12100010 AB34174	
							NHDPHS: A209326001		NHDPHS: A209326002		NHDPHS: A209326003		NHDPHS: A209326004		NHDPHS: A209326005		NHDPHS: A209326006		NHDPHS: A209326007		NHDPHS: A209326008		NHDPHS: A209326009		NHDPHS: A209326010	
					EPA R3	TEC	Alpha: L1218098-01		Alpha: L1218098-02		Alpha: L1218098-03		Alpha: L1218098-04		Alpha: L1218098-05		Alpha: L1218098-06		Alpha: L1218098-07		Alpha: L1218098-08		Alpha: L1218098-09		Alpha: L1218098-10	
							Contract: C0001		Contract: C0002		Contract: C0003		Contract: C0004		Contract: C0005		Contract: C0006		Contract: C0007		Contract: C0008		Contract: C0009		Contract: C0010	
							Contract: F0001		Contract: F0002		Contract: F0003		Contract: F0004		Contract: F0005		Contract: F0006		Contract: F0007		Contract: F0008		Contract: F0009		Contract: F0010	
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	0.599	NA	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.21	U	0.22	U	0.22	U	0.23	U	0.28	U	0.22	U	0.24	U	0.21	U	0.21	U	0.21	U
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.21	U	0.22	U	0.22	U	0.23	U	0.28	U	0.22	U	0.24	U	0.21	U	0.21	U	0.21	U
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.26		0.82		0.21		0.11	U	0.19		0.22		0.11	U	0.11	U
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.16		0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	0.0202	NA	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	0.67	NA	0.21	U	0.22	U	0.22	U	0.23	U	0.28	U	0.22	U	0.24	U	0.21	U	0.21	U	0.21	U
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	0.176	NA	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.43	U	0.43	U	0.44	U	0.45	U	0.56	U	0.43	U	0.49	U	0.43	U	0.43	U	0.42	U
Nitrosodimethylamine (N-)	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitroso-di-n-propylamine (N-)	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Nitrosodiphenylamine (N-)	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.504	NA	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-01_0-.3		MHK_SED-02_0-.3		MHK_SED-03_0-.3		MHK_SED-04_0-.3		MHK_SED-05_0-.3		MHK_SED-06_0-.3		MHK_SED-07_0-.3		MHK_SED-08_0-.3		MHK_SED-09_0-.3		MHK_SED-10_0-.3	
					Ecological Risk		10/08/12		10/08/12		10/08/12		10/08/12		10/08/12		10/09/12		10/08/12		10/08/12		10/08/12		10/08/12	
							USEPA R1: 12100010 AB34165		USEPA R1: 12100010 AB34166		USEPA R1: 12100010 AB34167		USEPA R1: 12100010 AB34168		USEPA R1: 12100010 AB34169		USEPA R1: 12100010 AB34170		USEPA R1: 12100010 AB34171		USEPA R1: 12100010 AB34172		USEPA R1: 12100010 AB34173		USEPA R1: 12100010 AB34174	
							NHDPHS: A209326001		NHDPHS: A209326002		NHDPHS: A209326003		NHDPHS: A209326004		NHDPHS: A209326005		NHDPHS: A209326006		NHDPHS: A209326007		NHDPHS: A209326008		NHDPHS: A209326009		NHDPHS: A209326010	
					EPA R3	TEC	Alpha: L1218098-01		Alpha: L1218098-02		Alpha: L1218098-03		Alpha: L1218098-04		Alpha: L1218098-05		Alpha: L1218098-06		Alpha: L1218098-07		Alpha: L1218098-08		Alpha: L1218098-09		Alpha: L1218098-10	
							Contract: C0001		Contract: C0002		Contract: C0003		Contract: C0004		Contract: C0005		Contract: C0006		Contract: C0007		Contract: C0008		Contract: C0009		Contract: C0010	
							Contract: F0001		Contract: F0002		Contract: F0003		Contract: F0004		Contract: F0005		Contract: F0006		Contract: F0007		Contract: F0008		Contract: F0009		Contract: F0010	
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.12		0.61		0.16		0.11	U	0.12	U	0.21		0.11	U	0.11	U
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.18		0.67		0.19		0.11	U	0.16		0.18		0.11	U	0.11	U
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.11	U	0.11	U	0.11	U	0.11	U	0.14	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U
Metals																										
Antimony	7440-36-0	EPA 200.8	NHDPHS	mg/kg Dry	2	NA	0.195	U	0.225	U	0.252	U	0.314		0.255	U	0.259	U	0.418		0.25	U	0.229	U	0.248	U
Arsenic	7440-38-2	EPA 200.8	NHDPHS	mg/kg Dry	9.8	9.79	3.08		2.65		4.43		4.98		7.25		6.3		6.99		2.34		2.92		4.14	
Barium	7440-39-3	EPA 200.8	NHDPHS	mg/kg Dry	NA	NA	14.1		12.6		19.5		21.3		27.3		20.5		25.7		11.1		8.37		16.1	
Cadmium	7440-43-9	EPA 200.8	NHDPHS	mg/kg Dry	0.99	0.99	0.435		0.272		**1.03**		**1.12**		**1.12**		**1.07**		**1.36**		**3.02**		0.2289	U	0.7069	
Chromium	7440-47-3	6010C	Alpha	mg/kg dry	43.4 *	43.4 *	19	J	22	J	**46**	J	40	J	38	J	32	J	**51**	J	16	J	6.2	J	**99**	J
Hexavalent Chromium	18540-29-9	SW-846 7196A	Alpha	mg/kg dry			N/A		N/A		N/A		N/A		N/A		1.2	U	N/A		N/A		N/A		N/A	
Lead	7439-92-1	EPA 200.8	NHDPHS	mg/kg Dry	35.8	35.8	7.85		8.43		23.0		29.9		**45.5**		23.3		32.2		0.2497	U	3.67		17.7	
Manganese	7439-96-5	EPA 200.8	NHDPHS	mg/kg Dry	460	NA	72.0		57.3		93.3		96.2		136		72.6		86.7		63.7		50.9		50.1	
Mercury	7439-97-6	SW-846 7471A	NHDPHS	mg/kg Dry	0.18	0.18	0.0513		0.0533	U	**0.201**		**0.320**		**0.3416**		**0.2309**		**0.2631**		0.1567		0.0453	U	0.1405	
Thallium	7440-28-0	EPA 200.8	NHDPHS	mg/kg Dry	NA	NA	0.195	U	0.225	U	0.252	U	0.255	U	0.255	U	0.259	U	0.294	U	0.25	U	0.229	U	0.248	U
Vanadium	7440-62-2	EPA 200.8	NHDPHS	mg/kg Dry	NA	NA	5.01		4.97		5.05		6.34		7.25		6.89		6.3		5.18		4.22		4.32	
PCBs																										
PCB-77		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	67.4		78.0		135		129		110		51.6		173		70.3		5.2		61.1	
PCB-81		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	1.3	J	2.2	J	3.1		3.0		2.6	J	1.2	J	3.2		2.0	J	0.1	J	1.5	J
PCB-105		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	124		414		365		256		249		121		423		179		13.1		168	
PCB-114		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	6.2		21.8		19.5		11.7		10.0		5.3		17.2		8.4		2.5	U	8.5	
PCB-118		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	379		1,020		958		669		624		310		1,060		418		35.3		427	
PCB-123		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	5.9		17.5		17.5		13.8		13.1		6.7		21.6		9.5		0.6	J	8.1	
PCB-126		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	1.1	J	1.9	J	3.4		2.9		2.5	J	1.2	J	4.2		2.1	J	0.2	J	2.0	J
PCB-156/157		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	42.7		173		230		89.2		90.5		41.2		148		64.8		5.1		66.9	
PCB-167		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	14.8		52.0		73.5		31.8		31.9		14.5		52.4		22.4		1.8	J	22.5	
PCB-169		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	0.4	J	1.1	J	1.4	J	1.0	J	1.1	J	5.0		1.3	J	0.8	J	2.5	U	0.8	J
PCB-189		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	2.7		6.6		12.1		6.1		6.3	J	3.0	J	9.8		4.2	J	0.4	J	4.2	J
Total MoCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	32.0	J	15.7	J	24.9	J	24.9	J	29.4	J	24.1	J	44.8	J	19.5	J	R		29.6	J
Total DiCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	683	J	724	J	922	J	936	J	637	J	479	J	1,060	J	452	J	60.8	J	1,550	J
Total TrCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	3,510	J	3,070	J	5,520	J	4,530	J	3,470	J	1,830	J	4,980	J	1,810	J	265	J	2,400	J
Total TeCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	4,820	J	5,870	J	7,970	J	6,750	J	4,910	J	2,990	J	9,290	J	2,990	J	385	J	3,770	J
Total PeCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	2,510	J	6,710	J	5,700	J	4,140	J	4,240	J	2,140	J	7,630	J	2,900	J	252	J	3,040	J
Total HxCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	1,440	J	4,690	J	5,330	J	4,650	J	2,980	J	1,330	J	7,290	J	2,130	J	171	J	2,770	J
Total HpCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	637	J	1,220	J	1,960	J	1,380	J	1,380	J	681	J	2,470	J	986	J	79.2	J	860	J
Total OcCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	333	J	367	J	684	J	620	J	786	J	450	J	1,230	J	453	J	81.3	J	531	J
Total NoCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	439	J	117	J	226	J	194	J	270	J	916	J	812	J	384	J	352	J	804	J
DeCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	33.2		50.4		93.6		83.4		107		36.1		129		56.0		5.3		51.8	
Total PCBs ^	–	SOW CBC01.2	USEPA CL	ng/kg dry	59,800	59,800	14,400	J	22,800	J	28,400	J	23,300	J	18,800	J	10,900	J	34,900	J	12,200	J	1,650	J	15,800	J
TE PCBs #	–	SOW CBC01.2	USEPA CL	ng/kg dry	–	–	0.15	J	0.28	J	0.45	J	0.37	J	0.33	J	0.29	J	0.53	J	0.26	J	0.022	J	0.25	J
Dioxins/Furans																										
2,3,7,8-TCDD	34465-46-8	SOW DLM02.2	USEPA CL	ng/kg dry	0.85	NA	0.27	J	0.22	J	0.37	J	0.37	J	0.29	J	0.29	J	0.52	J	0.26	J	0.1	U	0.25	J
2,3,7,8-TCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1.48		1.32		7.91		5.76		8.67		2.43		5.01		1.77		0.20	J	2.30	

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-01_0-.3		MHK_SED-02_0-.3		MHK_SED-03_0-.3		MHK_SED-04_0-.3		MHK_SED-05_0-.3		MHK_SED-06_0-.3		MHK_SED-07_0-.3		MHK_SED-08_0-.3		MHK_SED-09_0-.3		MHK_SED-10_0-.3	
					Ecological Risk		10/08/12		10/08/12		10/08/12		10/08/12		10/08/12		10/09/12		10/08/12		10/08/12		10/08/12		10/08/12	
							USEPA R1: 12100010 AB34165		USEPA R1: 12100010 AB34166		USEPA R1: 12100010 AB34167		USEPA R1: 12100010 AB34168		USEPA R1: 12100010 AB34169		USEPA R1: 12100010 AB34170		USEPA R1: 12100010 AB34171		USEPA R1: 12100010 AB34172		USEPA R1: 12100010 AB34173		USEPA R1: 12100010 AB34174	
							NHDPHS: A209326001		NHDPHS: A209326002		NHDPHS: A209326003		NHDPHS: A209326004		NHDPHS: A209326005		NHDPHS: A209326006		NHDPHS: A209326007		NHDPHS: A209326008		NHDPHS: A209326009		NHDPHS: A209326010	
					EPA R3	TEC	Alpha: L1218098-01		Alpha: L1218098-02		Alpha: L1218098-03		Alpha: L1218098-04		Alpha: L1218098-05		Alpha: L1218098-06		Alpha: L1218098-07		Alpha: L1218098-08		Alpha: L1218098-09		Alpha: L1218098-10	
							Contract: C0001		Contract: C0002		Contract: C0003		Contract: C0004		Contract: C0005		Contract: C0006		Contract: C0007		Contract: C0008		Contract: C0009		Contract: C0010	
							Contract: F0001		Contract: F0002		Contract: F0003		Contract: F0004		Contract: F0005		Contract: F0006		Contract: F0007		Contract: F0008		Contract: F0009		Contract: F0010	
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,2,3,7,8-PeCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	0.24	J	0.1	U	1.77	J	1.15	J	2.63	J	0.51	J	1.01	J	0.33	J	0.1	U	0.46	J
1,2,3,7,8-PeCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	0.66	J	0.91	J	1.45	J	1.30	J	1.03	J	0.87	J	1.85	J	0.90	J	0.1	U	0.80	J
2,3,4,7,8-PeCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	0.42	J	0.60	J	1.75	J	1.29	J	2.12	J	0.71	J	1.33	J	0.63	J	0.1	U	0.73	J
1,2,3,4,7,8-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1.53	J	1.92	J	3.94	J	3.90	J	4.08	J	2.30	J	5.20	J	2.41	J	0.15	J	2.42	J
1,2,3,6,7,8-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	0.78	J	1.03	J	1.89	J	1.75	J	1.70	J	1.10	J	2.33	J	1.02	J	0.12	J	1.58	J
1,2,3,4,7,8-HxCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1.66	J	1.98	J	3.41	J	3.17	J	2.65	J	2.00	J	4.46	J	2.43	J	0.1	U	1.51	J
1,2,3,6,7,8-HxCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	5.84	J	8.81	J	14.3	J	13.3	J	12.0	J	8.15	J	18.2	J	8.35	J	0.50	J	9.79	
1,2,3,7,8,9-HxCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	4.77	J	6.84	J	10.4	J	9.46	J	8.17	J	6.15	J	14.1	J	6.69	J	0.42	J	5.25	J
2,3,4,6,7,8-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1.30	J	1.05	J	3.19	J	3.11	J	2.60	J	2.06	J	4.31	J	2.15	J	0.16	J	3.38	J
1,2,3,7,8,9-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	0.2	U	0.3	U	0.1	U	0.2	U	0.1	U	0.1	U	0.2	U	0.1	U	0.1	U	0.1	U
1,2,3,4,6,7,8-HpCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	39.9	J	59.8	J	101	J	88.2	J	78.3	J	59.0	J	135	J	57.7	J	4.38	J	98.4	
1,2,3,4,6,7,8-HpCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	181	J	285	J	461	J	404	J	337	J	236	J	580	J	265	J	16.9	J	347	
1,2,3,4,7,8,9-HpCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1.46	J	2.24	J	3.11	J	3.00	J	2.53	J	1.71	J	4.26	J	1.74	J	0.2	U	3.24	J
OCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1,620	J	2,300	J	3,780	J	3,340	J	2,790	J	1,890	J	4,460	J	2,080	J	170	J	4,190	
OCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	69.7	J	105	J	153	J	144	J	113	J	83.7	J	212	J	90.9	J	7.54	J	186	
Total TCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	2.72	J	2.42	J	4.64	J	4.02	J	3.56	J	2.62	J	5.46	J	2.51	J	0.24	J	2.34	J
Total PeCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	8.85	J	10.5	J	16.1	J	16.3	J	11.3	J	9.13	J	18.9	J	8.93	J	0.55	J	9.13	J
Total HxCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	51.8	J	86.1	J	111	J	100	J	84.1	J	61.1	J	135	J	62.9	J	4.29	J	62.5	J
Total HpCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	344	J	504	J	821	J	733	J	604	J	429	J	1,030	J	465	J	30.9	J	635	J
Total TCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	9.81	J	9.10	J	31.4	J	27.6	J	34.5	J	16.5	J	32.2	J	12.8	J	0.60	J	14.6	J
Total PeCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	8.11	J	10.3	J	23.7	J	21.7	J	25.6	J	14.0	J	27.5	J	11.8	J	0.1	UJ	13.7	J
Total HxCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	39.8	J	74.0	J	87.9	J	84.3	J	74.7	J	53.1	J	118	J	52.2	J	3.90	J	80.2	J
Total HpCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	111	J	174	J	265	J	238	J	213	J	147	J	358	J	153	J	11.3	J	275	J
TE Dioxin/Furan #	–	SOW DLM02.2	USEPA CL	ng/kg dry	0.85	NA	**5.53**	J	**7.80**	J	**13.7**	J	**12.1**	J	**11.1**	J	**7.37**	J	**16.8**	J	**7.74**	J	0.421	J	**9.71**	J
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	0.85	NA	**5.68**	J	**8.08**	J	**14.15**	J	**12.47**	J	**11.4**	J	**7.66**	J	**17.33**	J	**8.00**	J	0.443	J	**9.96**	J
Other Parameters																										
Total Organic Carbon	7440-44-0	Lloyd Kahn	Alpha	Percent	–	–	0.24		0.25		0.52		0.59		0.68		0.53		1.06		0.43		0.096		0.39	
pH	12408-02-5	9045D	Alpha	S.U.	–	–	N/A		N/A		N/A		N/A		N/A		6.2		N/A		N/A		N/A		N/A	
ORP	–	D1498	Alpha	mV	–	–	N/A		N/A		N/A		N/A		N/A		94		N/A		N/A		N/A		N/A	

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-11_0-.3		MHK_SED-12_0-.3		MHK_SED-13_0-.3		MHK_SED-13_0-.3 Duplicate (OW-111, OW-211, OW-311, OW-411)		MHK_SED-14_0-.3		MHK_SED-15_0-.3		MHK_SED-16_0-.3		EQUIP BLANK		TRIP BLANK	
					Ecological Risk		10/08/12		10/08/12		10/09/12		10/09/12		10/08/12		10/08/12		10/09/12		10/09/12		10/04/12	
							USEPA R1: 12100010 AB34175		USEPA R1: 12100010 AB34176		USEPA R1: 12100010 AB34177		USEPA R1: 12100010 AB34181		USEPA R1: 12100010 AB34178		USEPA R1: 12100010 AB34179		USEPA R1: 12100010 AB34180		USEPA R1: 12100010 AB34182		USEPA R1: 12100010 AB34183	
							NHDPHS: A209326011		NHDPHS: A209326012		NHDPHS: A209326013		NHDPHS: A209326017		NHDPHS: A209326014		NHDPHS: A209326015		NHDPHS: A209326016		NHDPHS: A209326018			
					EPA R3	TEC	Alpha: L1218098-11		Alpha: L1218098-12		Alpha: L1218098-13		Alpha: L1218098-17		Alpha: L1218098-14		Alpha: L1218098-15		Alpha: L1218098-16		Alpha: L1218098-18			
							Contract: C0011		Contract: C0012		Contract: C0013		Contract: C0017		Contract: C0014		Contract: C0015		Contract: C0016		Contract: C0018			
							Contract: F0011		Contract: F0012		Contract: F0013		Contract: F0017		Contract: F0014		Contract: F0015		Contract: F0016		Contract: F0018			
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs																								
Acetone (2-Propanone)	67-64-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Acrylonitrile	107-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Benzene	71-43-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Bromobenzene	108-86-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Bromochloromethane	74-97-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Bromodichloromethane	75-27-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Bromoform	75-25-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Bromomethane	74-83-9	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Butanone (2-) (MEK)	78-93-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Butylbenzene (n-)	104-51-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Butylbenzene (sec-)	135-98-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Butylbenzene (tert-)	98-06-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Carbon Disulfide	75-15-0	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Carbon Tetrachloride	56-23-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Chlorobenzene	108-90-7	$VOAHS	USEPA R1	mg/kg dry	0.00842	NA	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Chloroethane	75-00-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Chloroform	67-66-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Chloromethane	74-87-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Chlorotoluene (2-)	95-49-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Chlorotoluene (4-)	106-43-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dibromo-3-Chloropropane (1,2-)	96-12-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dibromochloromethane	124-48-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dibromoethane (1,2-)	106-93-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dibromomethane	74-95-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichlorobenzene (1,2-)	95-50-1	$VOAHS	USEPA R1	mg/kg dry	0.0165	NA	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichlorobenzene (1,3-)	541-73-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichlorobenzene (1,4-)	106-46-7	$VOAHS	USEPA R1	mg/kg dry	0.599	NA	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichlorodifluoromethane	75-71-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloroethane (1,1-)	75-34-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloroethane (1,2-)	107-06-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloroethylene (1,1-)	75-35-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloroethylene (cis-1,2-)	156-59-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloroethylene (trans-1,2-)	156-60-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloropropane (1,2-)	78-87-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloropropane (1,3-)	142-28-9	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloropropane (2,2-)	594-20-7	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloropropene (1,1-)	563-58-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloropropene (cis-1,3-)	10061-01-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Dichloropropene (trans-1,3-)	10061-02-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Ethyl Ether	60-29-7	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Ethylbenzene	100-41-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Hexachlorobutadiene	87-68-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Hexanone (2-)	591-78-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Isopropylbenzene	98-82-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Isopropyltoluene (para-)	99-87-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Methyl-2-Pentanone (4-) (MIBK)	108-10-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Methylene Chloride	75-09-2	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Methyl-t-Butyl Ether	1634-04-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Naphthalene	91-20-3	$VOAHS	USEPA R1	mg/kg dry	0.176	NA	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Propylbenzene (n-)	103-65-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Styrene	100-42-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-11_0-.3		MHK_SED-12_0-.3		MHK_SED-13_0-.3		MHK_SED-13_0-.3 Duplicate (OW-111, OW-211, OW-311, OW-411)		MHK_SED-14_0-.3		MHK_SED-15_0-.3		MHK_SED-16_0-.3		EQUIP BLANK		TRIP BLANK	
					Ecological Risk		10/08/12		10/08/12		10/09/12		10/09/12		10/08/12		10/08/12		10/09/12		10/09/12		10/04/12	
							USEPA R1: 12100010 AB34175		USEPA R1: 12100010 AB34176		USEPA R1: 12100010 AB34177		USEPA R1: 12100010 AB34181		USEPA R1: 12100010 AB34178		USEPA R1: 12100010 AB34179		USEPA R1: 12100010 AB34180		USEPA R1: 12100010 AB34182		USEPA R1: 12100010 AB34183	
							NHDPHS: A209326011		NHDPHS: A209326012		NHDPHS: A209326013		NHDPHS: A209326017		NHDPHS: A209326014		NHDPHS: A209326015		NHDPHS: A209326016		NHDPHS: A209326018			
					EPA R3	TEC	Alpha: L1218098-11		Alpha: L1218098-12		Alpha: L1218098-13		Alpha: L1218098-17		Alpha: L1218098-14		Alpha: L1218098-15		Alpha: L1218098-16		Alpha: L1218098-18			
							Contract: C0011		Contract: C0012		Contract: C0013		Contract: C0017		Contract: C0014		Contract: C0015		Contract: C0016		Contract: C0018			
							Contract: F0011		Contract: F0012		Contract: F0013		Contract: F0017		Contract: F0014		Contract: F0015		Contract: F0016		Contract: F0018			
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Tetrachloroethane (1,1,1,2-)	630-20-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Tetrachloroethane (1,1,2,2-)	79-34-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Tetrachloroethylene	127-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Tetrahydrofuran	109-99-9	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Toluene	108-88-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
chloro-1,2,2-Trifluoroethane (1,1,	76-13-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichlorobenzene (1,2,3-)	87-61-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichlorobenzene (1,2,4-)	120-82-1	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichloroethane (1,1,1-)	71-55-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichloroethane (1,1,2-)	79-00-5	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichloroethylene	79-01-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichlorofluoromethane	75-69-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trichloropropane (1,2,3-)	96-18-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trimethylbenzene (1,2,4-)	95-63-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Trimethylbenzene (1,3,5-)	108-67-8	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Vinyl Acetate	108-05-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Vinyl Chloride	75-01-4	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
Xylene (m,p-)	108-38-3/106-42-3	$VOAHS	USEPA R1	mg/kg dry	–	–	0.36	U	0.34	U	0.28	U	0.24	U	0.20	U	0.17	U	0.13	U	0.0020 (mg/L)	U	0.10 (mg/L)	U
Xylene (o-)	95-47-6	$VOAHS	USEPA R1	mg/kg dry	–	–	0.18	U	0.17	U	0.14	U	0.12	U	0.10	U	0.087	U	0.066	U	0.0010 (mg/L)	U	0.050 (mg/L)	U
SVOCs																								
Acenaphthene	83-32-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Acenaphthylene	208-96-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Acetophenone	98-86-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Aniline	62-53-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Anthracene	120-12-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Aramite	140-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Azobenzene	103-33-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Benzidine	92-87-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Benzo(a)anthracene	56-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.26		0.19		0.0025 (mg/L)	U	N/A	
Benzo(a)pyrene	50-32-8	$BNAMS	USEPA R1	mg/kg dry	0.15	0.15	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	**0.29**		**0.18**		0.0025 (mg/L)	U	N/A	
Benzo(b)fluoranthene	205-99-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.60		0.17	U	0.15	U	0.13	U	0.50		0.28		0.0025 (mg/L)	U	N/A	
Benzo(g,h,i)perylene	191-24-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.24		0.14		0.0025 (mg/L)	U	N/A	
Benzo(k)fluoranthene	207-08-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.20		0.11	U	0.0025 (mg/L)	U	N/A	
Benzoic acid	65-85-0	$BNAMS	USEPA R1	mg/kg dry	–	–	2.0	U	1		0.45		0.41		0.27	U	0.32		0.22	U	0.0050 (mg/L)	U	N/A	
Benzyl alcohol	100-51-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
bis(-2-Chloroethoxy)methane	111-91-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Bis(2-Chloroethyl)ether	111-44-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Bis(2-ethylhexyl)phthalate	117-81-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.82		0.17	U	0.15	U	0.13	U	0.13	U	0.27		0.0025 (mg/L)	U	N/A	
Bromophenyl-phenylether (4-)	101-55-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Butylbenzylphthalate	85-68-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Carbazole	86-74-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chloro-3-methylphenol (4-)	59-50-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chloroaniline (4-)	106-47-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chlorobenzilate	510-15-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chloronaphthalene (2-)	91-58-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chlorophenol (2-)	95-57-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chlorophenyl-phenylether (4-)	7005-72-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Chrysene	218-01-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.48		0.17	U	0.15	U	0.13	U	0.40		0.25		0.0025 (mg/L)	U	N/A	
Dibenz(a,h)anthracene	53-70-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dibenzofuran	132-64-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dichlorobenzene (1,2-)	95-50-1	$BNAMS	USEPA R1	mg/kg dry	0.0165	NA	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-11_0-.3		MHK_SED-12_0-.3		MHK_SED-13_0-.3		MHK_SED-13_0-.3 Duplicate (OW-111, OW-211, OW-311, OW-411)		MHK_SED-14_0-.3		MHK_SED-15_0-.3		MHK_SED-16_0-.3		EQUIP BLANK		TRIP BLANK	
					Ecological Risk		10/08/12		10/08/12		10/09/12		10/09/12		10/08/12		10/08/12		10/09/12		10/09/12		10/04/12	
							USEPA R1: 12100010 AB34175		USEPA R1: 12100010 AB34176		USEPA R1: 12100010 AB34177		USEPA R1: 12100010 AB34181		USEPA R1: 12100010 AB34178		USEPA R1: 12100010 AB34179		USEPA R1: 12100010 AB34180		USEPA R1: 12100010 AB34182		USEPA R1: 12100010 AB34183	
							NHDPHS: A209326011		NHDPHS: A209326012		NHDPHS: A209326013		NHDPHS: A209326017		NHDPHS: A209326014		NHDPHS: A209326015		NHDPHS: A209326016		NHDPHS: A209326018			
					EPA R3	TEC	Alpha: L1218098-11		Alpha: L1218098-12		Alpha: L1218098-13		Alpha: L1218098-17		Alpha: L1218098-14		Alpha: L1218098-15		Alpha: L1218098-16		Alpha: L1218098-18			
							Contract: C0011		Contract: C0012		Contract: C0013		Contract: C0017		Contract: C0014		Contract: C0015		Contract: C0016		Contract: C0018			
							Contract: F0011		Contract: F0012		Contract: F0013		Contract: F0017		Contract: F0014		Contract: F0015		Contract: F0016		Contract: F0018			
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Dichlorobenzene (1,3-)	541-73-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dichlorobenzene (1,4-)	106-46-7	$BNAMS	USEPA R1	mg/kg dry	0.599	NA	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dichlorobenzidine (3,3'-)	91-94-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dichlorophenol (2,4-)	120-83-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dichlorophenol (2,6-)	87-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Diethylphthalate	84-66-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dimethyl phthalate	131-11-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dimethylphenol (2,4-)	105-67-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Di-n-butylphthalate	84-74-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dinitro-2-methylphenol (4,6-)	534-52-1	$BNAMS	USEPA R1	mg/kg dry	–	–	2.0	U	0.79	U	0.34	U	0.3	U	0.27	U	0.25	U	0.22	U	0.0050 (mg/L)	U	N/A	
Dinitrobenzene (1,3-)	99-65-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dinitrophenol (2,4-)	51-28-5	$BNAMS	USEPA R1	mg/kg dry	–	–	2.0	U	0.79	U	0.34	U	0.3	U	0.27	U	0.25	U	0.22	U	0.0050 (mg/L)	U	N/A	
Dinitrotoluene (2,4-)	121-14-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dinitrotoluene (2,6-)	606-20-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Di-n-octyl phthalate	117-84-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Dinoseb	88-85-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Ethyl methanesulfonate	62-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Fluoranthene	206-44-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.75		0.19		0.17		0.13	U	0.69		0.43		0.0025 (mg/L)	U	N/A	
Fluorene	86-73-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Hexachlorobenzene	118-74-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Hexachlorobutadiene	87-68-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Hexachlorocyclopentadiene	77-47-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Hexachloroethane	67-72-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Hexachloropropene	1888-71-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Indeno(1,2,3-cd)pyrene	193-39-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.20		0.11		0.0025 (mg/L)	U	N/A	
Isodrin	465-73-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Isophorone	78-59-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Isosafrole	120-58-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Kepone	143-50-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Methyl methanesulfonate	66-27-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Methylcholanthrene (3-)	56-49-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Methylnaphthalene (1-)	90-12-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Methylnaphthalene (2-)	91-57-6	$BNAMS	USEPA R1	mg/kg dry	0.0202	NA	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Methylphenol (2-)	95-48-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Methylphenol (3,4-)	108-39-4/106-44-5	$BNAMS	USEPA R1	mg/kg dry	0.67	NA	2.0	U	0.79	U	0.34	U	0.3	U	0.27	U	0.25	U	0.22	U	0.0050 (mg/L)	U	N/A	
Naphthalene	91-20-3	$BNAMS	USEPA R1	mg/kg dry	0.176	NA	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Naphthoquinone (1,4-)	130-15-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitroaniline (2-)	88-74-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitroaniline (3-)	99-09-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitroaniline (4-)	100-01-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitrobenzene	98-95-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitrophenol (2-)	88-75-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitrophenol (4-)	100-02-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
nitroquinoline-1-oxide (4-)	56-57-5	$BNAMS	USEPA R1	mg/kg dry	–	–	3.9	U	1.6	U	0.68	U	0.61	U	0.53	U	0.5	U	0.44	U	0.010 (mg/L)	U	N/A	
Nitrosodimethylamine (N-)	62-75-9	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitroso-di-n-propylamine (N-)	621-64-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Nitrosodiphenylamine (N-)	86-30-6	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Oxybis(1-chloropropane) (2,2'-)	108-60-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Pentachlorobenzene	608-93-5	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Pentachloronitrobenzene	82-68-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Pentachlorophenol	87-86-5	$BNAMS	USEPA R1	mg/kg dry	0.504	NA	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Phenacetin	62-44-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-11_0-.3		MHK_SED-12_0-.3		MHK_SED-13_0-.3		MHK_SED-13_0-.3 Duplicate (OW-111, OW-211, OW-311, OW-411)		MHK_SED-14_0-.3		MHK_SED-15_0-.3		MHK_SED-16_0-.3		EQUIP BLANK		TRIP BLANK	
					Ecological Risk		10/08/12		10/08/12		10/09/12		10/09/12		10/08/12		10/08/12		10/09/12		10/09/12		10/04/12	
							USEPA R1: 12100010 AB34175		USEPA R1: 12100010 AB34176		USEPA R1: 12100010 AB34177		USEPA R1: 12100010 AB34181		USEPA R1: 12100010 AB34178		USEPA R1: 12100010 AB34179		USEPA R1: 12100010 AB34180		USEPA R1: 12100010 AB34182		USEPA R1: 12100010 AB34183	
							NHDPHS: A209326011		NHDPHS: A209326012		NHDPHS: A209326013		NHDPHS: A209326017		NHDPHS: A209326014		NHDPHS: A209326015		NHDPHS: A209326016		NHDPHS: A209326018			
					EPA R3	TEC	Alpha: L1218098-11		Alpha: L1218098-12		Alpha: L1218098-13		Alpha: L1218098-17		Alpha: L1218098-14		Alpha: L1218098-15		Alpha: L1218098-16		Alpha: L1218098-18			
							Contract: C0011		Contract: C0012		Contract: C0013		Contract: C0017		Contract: C0014		Contract: C0015		Contract: C0016		Contract: C0018			
							Contract: F0011		Contract: F0012		Contract: F0013		Contract: F0017		Contract: F0014		Contract: F0015		Contract: F0016		Contract: F0018			
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Phenanthrene	85-01-8	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.47		0.17	U	0.15	U	0.13	U	0.32		0.23		0.0025 (mg/L)	U	N/A	
Phenol	108-95-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Pyrene	129-00-0	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.69		0.17	U	0.15		0.13	U	0.57		0.37		0.0025 (mg/L)	U	N/A	
Pyridine	110-86-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Safrole	94-59-7	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Tetrachlorobenzene (1,2,4,5-)	95-94-3	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Tetrachlorophenol (2,3,4,6-)	58-90-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Trichlorobenzene (1,2,4-)	120-82-1	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Trichlorophenol (2,4,5-)	95-95-4	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Trichlorophenol (2,4,6-)	88-06-2	$BNAMS	USEPA R1	mg/kg dry	–	–	0.99	U	0.39	U	0.17	U	0.15	U	0.13	U	0.13	U	0.11	U	0.0025 (mg/L)	U	N/A	
Metals																								
Antimony	7440-36-0	EPA 200.8	NHDPHS	mg/kg Dry	2	NA	**4.32**		**2.73**		0.314	U	0.341	U	0.299	U	0.285	U	0.514		0.0010 (mg/L)	U	N/A	
Arsenic	7440-38-2	EPA 200.8	NHDPHS	mg/kg Dry	9.8	9.79	**18.2**		**15.7**		9.11		8.51		8.40		**11.1**		5.23		0.0010 (mg/L)	U	N/A	
Barium	7440-39-3	EPA 200.8	NHDPHS	mg/kg Dry	NA	NA	129		149		30.2		30.9		41.2		29.4		25.1		0.0050 (mg/L)	U	N/A	
Cadmium	7440-43-9	EPA 200.8	NHDPHS	mg/kg Dry	0.99	0.99	**10**		**12.4**		0.65		0.614		0.7378		0.3335		**1.72**		0.0020 (mg/L)	U	N/A	
Chromium	7440-47-3	6010C	Alpha	mg/kg dry	43.4 *	43.4 *	**220**	J	**180**	J	**46**	J	**62**	J	**990**	J	14	J	18	J	0.010 (mg/L)	U	N/A	
Hexavalent Chromium	18540-29-9	SW-846 7196A	Alpha	mg/kg dry			N/A		N/A		1.4	U	1.3	U	N/A		N/A		1.2	U	0.010 (mg/L)	U	N/A	
Lead	7439-92-1	EPA 200.8	NHDPHS	mg/kg Dry	35.8	35.8	**171**		**157**		**52.9**		**63.8**		27.7		16.2		32.9		0.0010 (mg/L)	U	N/A	
Manganese	7439-96-5	EPA 200.8	NHDPHS	mg/kg Dry	460	NA	263		265		116		107		146		177		74.4		0.0050 (mg/L)	U	N/A	
Mercury	7439-97-6	SW-846 7471A	NHDPHS	mg/kg Dry	0.18	0.18	**0.7307**		**0.4767**		**0.705**		**0.5474**		**0.6733**		0.0721	U	0.1556		0.00050 (mg/L) (EPA Method 245.1)	U	N/A	
Thallium	7440-28-0	EPA 200.8	NHDPHS	mg/kg Dry	NA	NA	1.65	U	0.976	U	0.314	U	0.341	U	0.299	U	0.285	U	0.281	U	0.0010 (mg/L)	U	N/A	
Vanadium	7440-62-2	EPA 200.8	NHDPHS	mg/kg Dry	NA	NA	23.1		23.5		22.8		25		9.68		15.9		7.81		0.0050 (mg/L)	U	N/A	
PCBs																								
PCB-77		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	1,770		1,510		58.9	J	101	J	42.2		89.7		561		20 (pg/L)	U	N/A	
PCB-81		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	46.8		39.4		1.4	J	3.8		1.0	J	4.5		12.8		20 (pg/L)	U	N/A	
PCB-105		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	4,070		5,420		223		296		219		261		917		20 (pg/L)	U	N/A	
PCB-114		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	218		323		8.4	J	14.3	J	6.2		15.4		48.1		20 (pg/L)	U	N/A	
PCB-118		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	9,540		15,800		614		780		607		404		2,540		20 (pg/L)	U	N/A	
PCB-123		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	206		235		18.2		22.3		9.2		10.7		44.0		20 (pg/L)	U	N/A	
PCB-126		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	38.4		33.4		7.3		9.6		3.1	J	3.5		8.5		20 (pg/L)	U	N/A	
PCB-156/157		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	1,370		2,390		129		167		124		57.8		292		40 (pg/L)	U	N/A	
PCB-167		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	471		748		59.6		78.4		52.4		22.0		104		20 (pg/L)	U	N/A	
PCB-169		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	14.7		18.5		3.1	J	3.8		2.3	J	1.5	J	3.2		20 (pg/L)	U	N/A	
PCB-189		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	93.3	J	118	J	13.0		16.4	J	8.7		6.1	J	19.9	J	20 (pg/L)	UJ	N/A	
Total MoCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	266	J	265	J	32.6	J	13.6	J	14.4	J	10.0	J	163	J	R		N/A	
Total DiCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	17,700	J	23,200	J	330	J	447	J	228	J	201	J	10,800	J	ND		N/A	
Total TrCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	55,600	J	47,300	J	1,810	J	2,420	J	952	J	3,040	J	23,500	J	49.1 (pg/L)	UJ	N/A	
Total TeCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	92,900	J	102,000	J	2,390	J	3,860	J	1,970	J	6,520	J	34,400	J	ND		N/A	
Total PeCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	70,500	J	116,000	J	4,060	J	5,230	J	5,200	J	3,230	J	19,500	J	60.4 (pg/L)	J	N/A	
Total HxCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	43,600	J	69,600	J	4,820	J	5,990	J	5,540	J	2,330	J	11,000	J	ND		N/A	
Total HpCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	19,000	J	22,100	J	2,740	J	2,980	J	2,030	J	1,580	J	4,280	J	ND		N/A	
Total OcCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	8,020	J	7,290	J	3,260	J	1,380	J	796	J	522	J	1,860	J	ND		N/A	
Total NoCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	3,470	J	1,860	J	21,900	J	601	J	151	J	102	J	929	J	ND		N/A	
DeCB		SOW CBC01.2	USEPA CL	ng/kg dry	–	–	861		979		310		344		223		40.2		149		ND		N/A	
Total PCBs ^	–	SOW CBC01.2	USEPA CL	ng/kg dry	59,800	59,800	**312,000**	J	**390,000**	J	41,700	J	23,300	J	17,100	J	17,600	J	**106,000**	J	60.4 (pg/L)	J	N/A	
TE PCBs #	–	SOW CBC01.2	USEPA CL	ng/kg dry	–	–	4.95	J	4.81	J	0.86	J	1.13	J	0.41	J	0.43	J	1.12		0 (pg/L)	UJ	N/A	
Dioxins/Furans																								
2,3,7,8-TCDD	34465-46-8	SOW DLM02.2	USEPA CL	ng/kg dry	0.85	NA	1.41	J	2.40	J	0.24	J	0.32	J	5.47		0.16	J	0.83	J	0.5 (pg/L)	U	N/A	
2,3,7,8-TCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	9.85		18.0		3.48	J	5.41		1.14	J	0.32	J	8.90		0.4 (pg/L)	U	N/A	

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Analyte	Cas No.	Method	Laboratory	Units	Project Action Limits (PALs)		MHK_SED-11_0-.3		MHK_SED-12_0-.3		MHK_SED-13_0-.3		MHK_SED-13_0-.3 Duplicate (OW-111, OW-211, OW-311, OW-411)		MHK_SED-14_0-.3		MHK_SED-15_0-.3		MHK_SED-16_0-.3		EQUIP BLANK		TRIP BLANK	
					Ecological Risk		10/08/12		10/08/12		10/09/12		10/09/12		10/08/12		10/08/12		10/09/12		10/09/12		10/04/12	
							USEPA R1: 12100010 AB34175		USEPA R1: 12100010 AB34176		USEPA R1: 12100010 AB34177		USEPA R1: 12100010 AB34181		USEPA R1: 12100010 AB34178		USEPA R1: 12100010 AB34179		USEPA R1: 12100010 AB34180		USEPA R1: 12100010 AB34182		USEPA R1: 12100010 AB34183	
							NHDPHS: A209326011		NHDPHS: A209326012		NHDPHS: A209326013		NHDPHS: A209326017		NHDPHS: A209326014		NHDPHS: A209326015		NHDPHS: A209326016		NHDPHS: A209326018			
					EPA R3	TEC	Alpha: L1218098-11		Alpha: L1218098-12		Alpha: L1218098-13		Alpha: L1218098-17		Alpha: L1218098-14		Alpha: L1218098-15		Alpha: L1218098-16		Alpha: L1218098-18			
							Contract: C0011		Contract: C0012		Contract: C0013		Contract: C0017		Contract: C0014		Contract: C0015		Contract: C0016		Contract: C0018			
							Contract: F0011		Contract: F0012		Contract: F0013		Contract: F0017		Contract: F0014		Contract: F0015		Contract: F0016		Contract: F0018			
							Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,2,3,7,8-PeCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1.54	J	2.99	J	0.96	J	1.34	J	1.60	J	0.21	J	0.64	J	0.3 (pg/L)	U	N/A	
1,2,3,7,8-PeCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	5.36	J	7.68	J	0.92	J	0.88	J	11.8		0.46	J	2.83	J	0.4 (pg/L)	U	N/A	
2,3,4,7,8-PeCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	3.43	J	5.49	J	1.39	J	1.87	J	2.41	J	0.37	J	1.47	J	0.3 (pg/L)	U	N/A	
1,2,3,4,7,8-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	15.5		25.2		3.23	J	4.21	J	24.5		0.95	J	5.99	J	0.6 (pg/L)	U	N/A	
1,2,3,6,7,8-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	7.67	J	13.4		1.60	J	1.81	J	14.7		0.63	J	3.05	J	0.6 (pg/L)	U	N/A	
1,2,3,4,7,8-HxCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	13.7	J	20.6		2.17	J	1.98	J	16.0		0.73	J	6.36	J	0.8 (pg/L)	U	N/A	
1,2,3,6,7,8-HxCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	66.6		95.8		8.40	J	9.75	J	208		1.74	J	25.2		0.8 (pg/L)	U	N/A	
1,2,3,7,8,9-HxCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	42.4		67.2		5.94	J	5.70	J	75.2		2.01	J	18.0		0.91 (pg/L)	J	N/A	
2,3,4,6,7,8-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	13.8	J	22.3		2.98	J	3.51	J	69.0		1.04	J	5.38	J	0.6 (pg/L)	U	N/A	
1,2,3,7,8,9-HxCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	0.64	J	1.1	U	0.2	U	0.15	J	1.25	J	0.1	U	0.36	J	0.8 (pg/L)	U	N/A	
1,2,3,4,6,7,8-HpCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	516		708		55.4		60.0		2,040		11.7		141		2.2 (pg/L)	U	N/A	
1,2,3,4,6,7,8-HpCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	2,010		3,340		343		387		6,870	J	60.3		675		3.9 (pg/L)	U	N/A	
1,2,3,4,7,8,9-HpCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	15.6		21.7		2.12	J	2.34	J	71.0		0.59	J	4.67	J	3.2 (pg/L)	U	N/A	
OCDD		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	16,300		26,400	J	3,480		3,950		110,000	J	592		5,580		8.33 (pg/L)	J	N/A	
OCDF		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	714		1,040		104		116		5,630		23.2		164		2.82 (pg/L)	J	N/A	
Total TCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	13.8	J	27.3	J	4.62	J	5.46	J	61.1	J	1.86	J	9.14	J	0.5 (pg/L)	UJ	N/A	
Total PeCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	56.1	J	102	J	13.2	J	13.6	J	286	J	4.01	J	24.1	J	1.93 (pg/L)	J	N/A	
Total HxCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	449	J	744	J	65.9	J	69.8	J	1,750	J	17.2	J	187	J	3.51 (pg/L)	J	N/A	
Total HpCDDs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	3,570	J	6,100	J	628	J	699	J	12,900	J	114	J	1,250	J	3.9 (pg/L)	UJ	N/A	
Total TCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	77.0	J	166	J	31.3	J	29.1	J	51.9	J	7.30	J	54.4	J	0.62 (pg/L)	UJ	N/A	
Total PeCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	89.6	J	157	J	24.6	J	26.3	J	161	J	5.58	J	40.7	J	0.3 (pg/L)	UJ	N/A	
Total HxCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	398	J	604	J	54.1	J	59.3	J	1,920	J	13.7	J	136	J	0.93 (pg/L)	J	N/A	
Total HpCDFs		SOW DLM02.2	USEPA CL	ng/kg dry	–	–	1,300	J	1,840	J	148	J	164	J	7,480	J	30.7	J	346	J	2.2 (pg/L)	UJ	N/A	
TE Dioxin/Furan #	–	SOW DLM02.2	USEPA CL	ng/kg dry	0.85	NA	**55.4**	J	**87.0**	J	**9.47**	J	**10.8**	J	**184**	J	**2.39**	J	**21.4**	J	0.0943 (pg/L)	J	N/A	
TE Dioxin/Furan + TE PCBs #	–	–	USEPA CL	ng/kg dry	0.85	NA	**60.35**	J	**91.8**	J	**10.33**	J	**11.93**	J	**184.41**	J	**2.82**	J	**22.52**	J	0.0943 (pg/L)	J	N/A	
Other Parameters																								
Total Organic Carbon	7440-44-0	Lloyd Kahn	Alpha	Percent	–	–	5.09		5.92		3.14		2.88		2.41		2.82		0.85		N/A		N/A	
pH	12408-02-5	9045D	Alpha	S.U.	–	–	N/A		N/A		5.2		5.2		N/A		N/A		6.3		N/A		N/A	
ORP	–	D1498	Alpha	mV	–	–	N/A		N/A		110		94		N/A		N/A		84		N/A		N/A	

TABLE 4 – Revision 1
Summary of Analytical Results – Sediment
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Notes:
1. Samples were collected by Sanborn Head on the dates indicated and were analyzed by the laboratories and methods indicated. Refer to the analytical laboratory reports for full method references. Laboratory report numbers and sample numbers are presented in the header beneath the sample collection dates.
"USEPA R1" indicates the United States Environmental Protection Agency Region 1 New England Region Laboratory in North Chelmsford, Massachusetts.
"Contract" indicates the USEPA contract laboratory, AGAT Laboratories in Saint-Laurent, Quebec, Canada.
"NHDPHS" indicates the New Hampshire Division of Public Health Services laboratory in Concord, New Hampshire.
"Alpha" indicates Alpha Analytical of Westboro, Massachusetts.
2. NHDPHS data were validated by NHDPHS personnel using USEPA Region 1 Modified Tier 1.
USEPA R1 data were reviewed by USEPA R1 personnel in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.
Contract lab data were validated by USEPA in accordance with Stage 4 Manual Validation (dioxins/furans and polychlorinated biphenyl [PCB] congeners) or Stage 2A Manual Validation (PCB homologues).
Alpha data were validated by USEPA personnel using Stage 2A Manual Validation.
3. "U" indicates the analyte was not detected above the indicated laboratory reporting limit, contract required quantitation limit (CRQL – for PCB congeners/homologues), or estimated detection limit (EDL - for dioxins/furans).
"J" indicates an estimated value. Refer to the data validation report for further information.
"N/A" indicates the sample was not analyzed for this parameter.
4. Only analytes which were detected or with an established Project Action Limit (PAL) are displayed. Refer to the analytical laboratory reports and/or data validation reports for the full list of analytes.
5. VOC, SVOC, and metals sediment concentrations are presented in milligrams per kilogram (mg/kg) on a dry weight basis, which are equivalent to parts per million (ppm); equipment blank and trip blank concentrations are presented in milligrams per liter (mg/L), which are also equivalent to ppm. PCB homologue/congener and dioxin/furan sediment concentrations are presented in nanograms per kilogram (ng/kg) on a dry weight basis, which are equivalent to parts per trillion (ppt); equipment blank concentrations are presented in picograms per liter (pg/L), which are equivalent to parts per quadrillion (ppq). Total organic carbon (TOC) concentrations are presented in percent; pH is presented in standard units (S.U.); and oxidation reduction potential (ORP) is presented in milliVolts (mV). pH and ORP were analyzed as part of the hexavalent chromium analysis.
6. PALs are from Sanborn Head's "Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, New Hampshire, NHDES Site No. 198404002, USEPA QA Tracking # 12121," dated September 2012. PALs provided to Sanborn Head by NHDES on July 19, 2012. Chromium PALs for ecological risk were provided by the USEPA via an e-mail from Rick Sugatt dated August 9, 2012. The following notes apply to the PALs:
EPA R3 = EPA Region 3 Freshwater Sediment Screening Benchmarks (http://www.epa.gov/reg3hwmd/risk/eco/btag/sbv/fwsed/screenbench.htm)
TEC = Threshold Effect Concentration, from MacDonald et al (2000; http://ptc.mtech.edu/pmunday/CFRevival/MacDonald%202000%20Sediment%20Quality%20Guidelines.pdf)
"–" indicates PALs were not established for this analyte.
NA = not applicable
7. Gray font indicates not detected or not analyzed.
Black font indicates detected at a concentration below the lowest PAL, or detected parameter for which no PAL is established.
Bold black font indicates detected concentration that exceeds the lowest PAL.
8. The PALs listed for 3,4-methylphenol are applicable to 4-methylphenol. USEPA R1 reports the combined concentration of the two isomers.
9. Yellow shading indicates the lowest applicable PAL.
Blue shading indicates the detected concentration exceeds the lowest PAL.
Orange shading indicates the reporting limit exceeds the lowest PAL.
10. "*" Indicates as part of this sampling event, samples were analyzed for total chromium, with a subset of samples also analyzed for hexavalent chromium. Chromium results are herein compared to the indicated PAL(s). Total chromium results, with no corresponding hexavalent chromium results, which exceed the PAL, may necessitate subsequent sampling for chromium speciation as part of a separate phase of work.
11. "#" indicates toxic equivalency (TE) concentrations were calculated by the USEPA during data validation using the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds," Society of Toxicology, July 7, 2006. The TE values were calculated using the final validated data and include the positive results and estimated values. The TE values were estimated (J) when any individual congener is estimated.
12. The summary table provides: total PCB concentrations based on the sum of PCB homologue concentrations, TE PCB concentrations calculated by USEPA as indicated in note 11 based on the detected dioxin-like PCB congeners, TE dioxin/furan concentrations calculated by USEPA as indicated in note 11 based on the detected dioxin/furan congeners, and the sum of TE Dioxins/Furans and TE PCB concentrations.
13. Refer to the expanded data table or data validation reports for concentrations of individual PCB homologues and congeners, and individual dioxin/furan congeners.

TABLE 5
Summary of Analytical Results – Sediment Grain Size
Mohawk Tannery Southern Parcel
Nashua, New Hampshire
NHDES Site No. 198404002
USEPA QA Tracking # 12121

Sample Name	Collection Date	Burmister Description	Sieve Name and Size (mm)						
			#4	#10	#20	#40	#60	#100	#200
			4.75	2	0.85	0.42	0.25	0.15	0.075
			Percent Finer						
MHK_SED-01_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	100	100	97	76	34	8
MHK_SED-02_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	100	100	96	73	37	10
MHK_SED-03_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	99	99	97	79	34	9
MHK_SED-04_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	100	99	98	82	41	10
MHK_SED-05_0-.3	10/08/12	Brown, fine SAND, little Silt.	100	100	99	98	81	47	17
MHK_SED-06_0-.3	10/09/12	Brown, fine SAND, little Silt.	100	99	99	97	84	47	16
MHK_SED-07_0-.3	10/08/12	Brown, fine SAND, little Silt.	100	100	99	97	80	43	16
MHK_SED-08_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	100	99	96	75	37	10
MHK_SED-09_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	100	100	95	66	32	8
MHK_SED-10_0-.3	10/08/12	Brown, fine SAND, trace Silt.	100	100	99	94	67	31	8
MHK_SED-11_0-.3	10/08/12	Dark brown, SILT, some fine Sand.	100	97	94	92	89	85	74
MHK_SED-12_0-.3	10/08/12	Dark brown, Clayey SILT, and fine Sand.	100	94	90	86	82	75	55
MHK_SED-13_0-.3	10/09/12	Dark brown, SILT and fine Sand.	100	98	97	96	94	86	56
MHK_SED-14_0-.3	10/08/12	Dark brown, fine to medium SAND, some Silt, trace Gravel.	96	94	88	76	63	49	35
MHK_SED-15_0-.3	10/08/12	Dark brown, fine to medium SAND, some Silt, trace Gravel.	99	96	85	67	46	32	23
MHK_SED-16_0-.3	10/09/12	Brown, fine SAND, trace Silt.	100	100	99	97	64	23	8

Notes:
1. Samples were collected by Sanborn Head on the dates indicated and were analyzed by Geotesting Express of Acton, Massachusetts, by ASTM Method D 422-63 (reapproved 2002).

2. These results were not validated.

FIGURES

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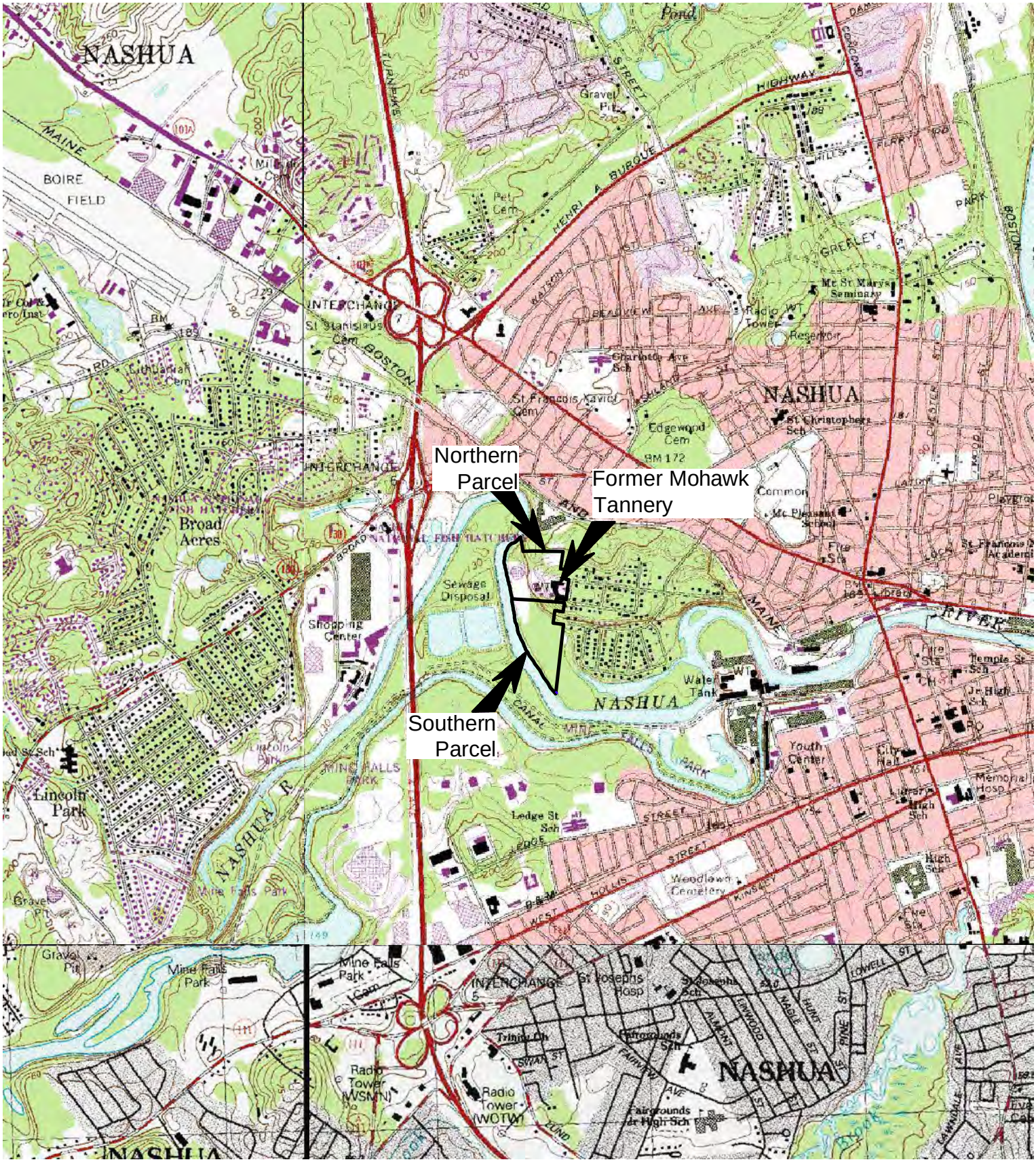

Notes:
Base map taken from 7.5 minute USGS Quadrangle Maps: South Merrimack, New hampshire 1968, Nashua North, New Hampshire 1968, Pepperell, Massachusetts 1988, Nashua South, New hampshire 1987

Drawn By: E. Wright
Designed By: T. White
Reviewed By: K. Dubois
Project No: 2158.01
Date: July 2013

1000' 0 2000' Feet

SANBORN HEAD

Figure 1

Locus Plan

Former Mohawk Tannery Site
Southern Parcel
Nashua, New Hampshire

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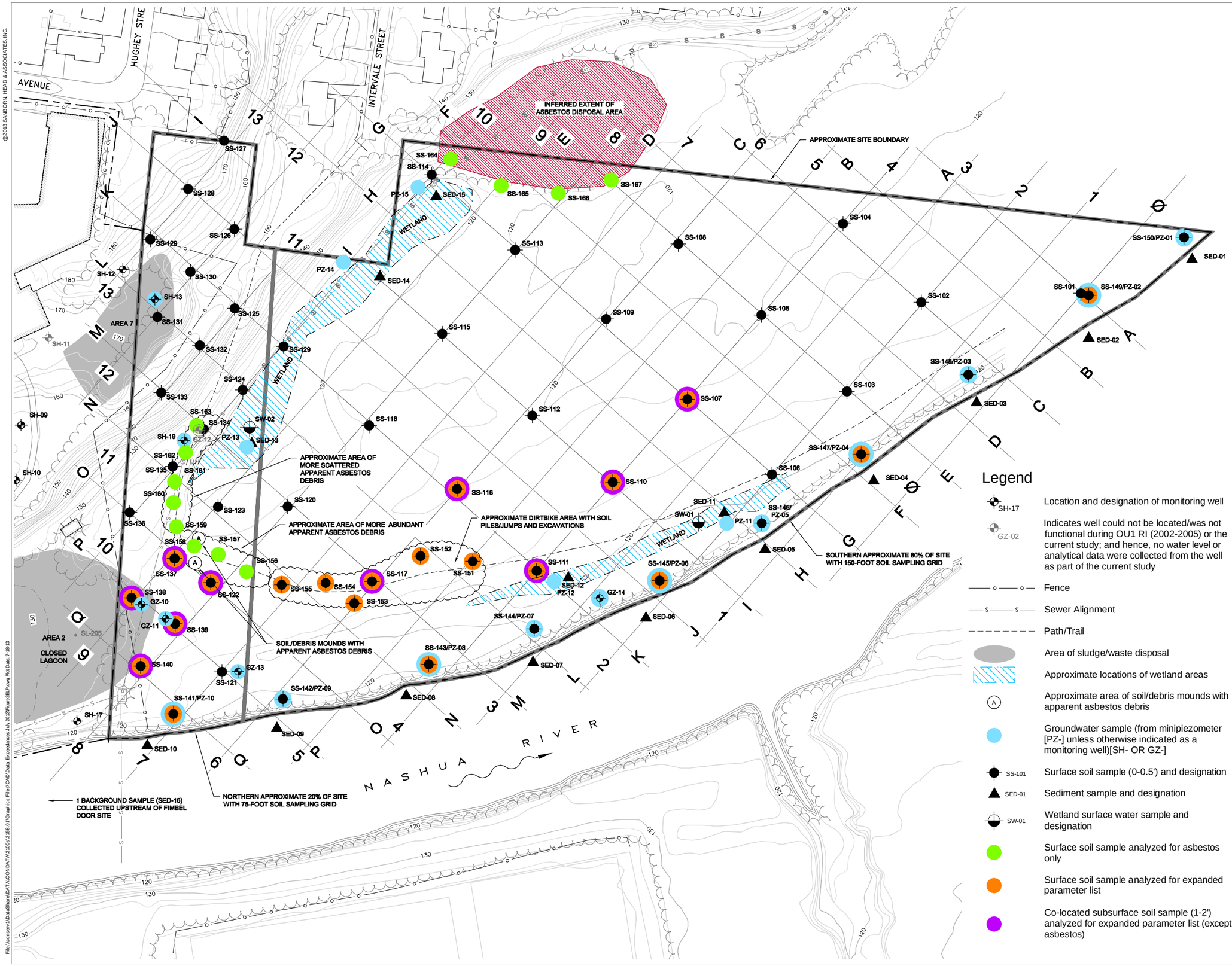
Figure 2

Exploration Location Plan Southern Parcel

Former Mohawk Tannery Site
Southern Parcel
Nashua, New Hampshire

Drawn By: E. Wright
Designed By: T. White
Reviewed By: C. Crocetti
Project No: 2158.01
Date: July 2013



Notes

1. 1. The base map was drawn from a plan entitled, "Site Plan and Sampling Location Plan, Mohawk Tannery Site, Nashua, New Hampshire" prepared by Tetra Tech Nus, Inc. (TTNUS) dated October 17, 2001. original scale: 1"=60'.

2. 2. The location of the site and site features should be considered approximate only, including locations of site features based on observations from Sanborn Head's site visit on July 10, 2012.

3. Pursuant to a request from U.S. Environmental Protection Agency (USEPA) (R. Sugatt), the angle of orientation of the grid was selected by using a random number table generated by the Stat Trek website(http://stattrek.com/statistics/random-number-generator.aspx) on July 16, 2012. The table included 360 random numbers from 1 to 360 with no duplicates. The angle of 146 degrees from east was selected by an employee touching a highlighter to the table while his eyes were closed.

4. Surface and sub-surface soil samples were collected October 22 through 24, 2012. Sediment samples were collected October 8 and 9, 2012. Groundwater and surface water samples were collected October 16 through 18, 2012. Refer to the Field Documentation Package for further information on the field sampling schedule and methods.

SANBORN HEAD

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©2013 SANBORN, HEAD & ASSOCIATES, INC.

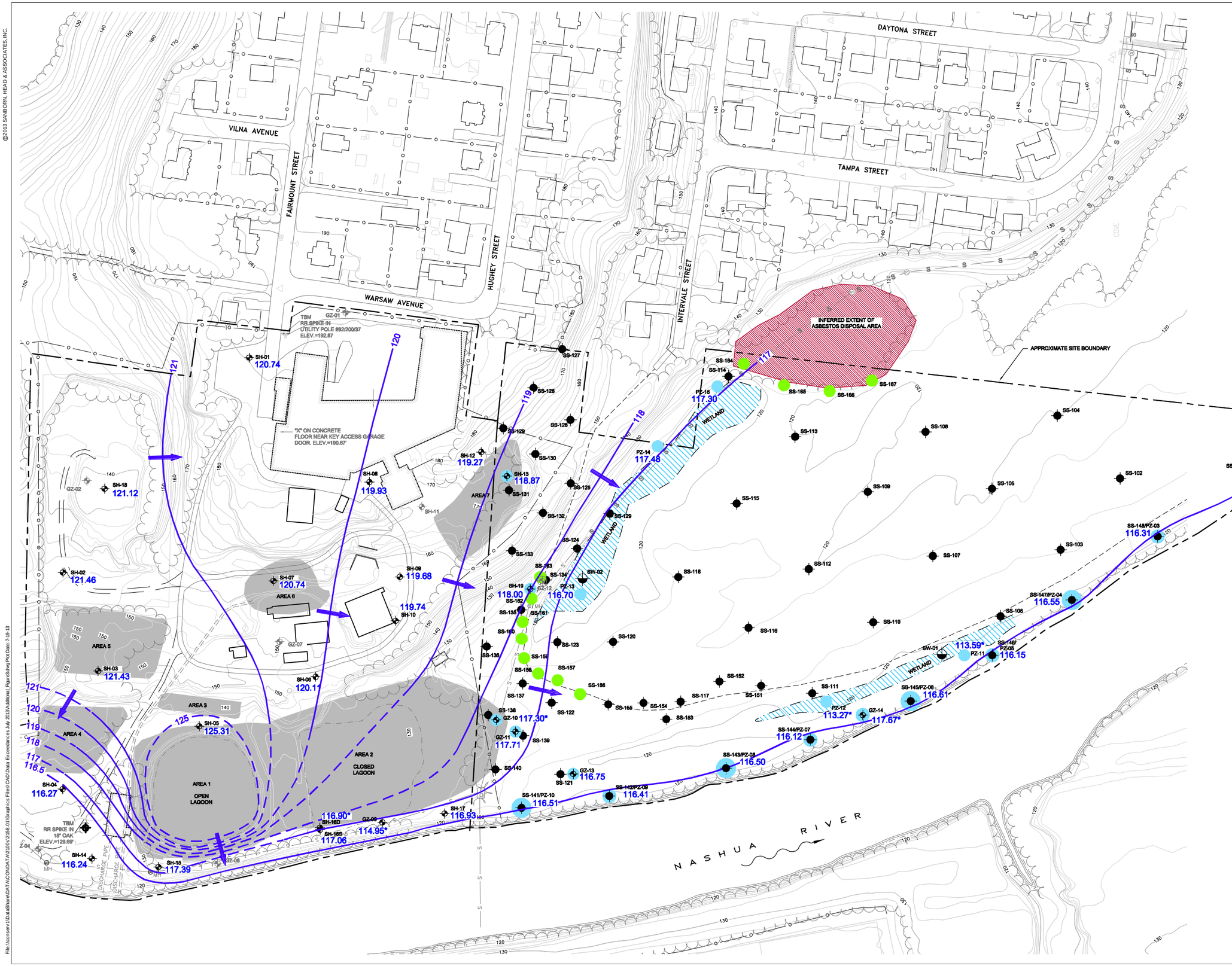

Figure 3

Groundwater Elevation Contour Plan Northern and Southern Parcel

Former Mohawk Tannery Site
Southern Parcel
Nashua, New Hampshire

Drawn By: E. Wright
Designed By: T. White
Reviewed By: C. Crocetti
Project No: 2158.01
Date: July 2013

Notes

1. The base map was drawn from a plan entitled, "Site Plan and Sampling Location Plan, Mohawk Tannery Site, Nashua, New Hampshire" prepared by Tetra Tech Nus, Inc. (TTNUS) dated October 17, 2001. original scale: 1"=60'.

2. The location of the site and site features should be considered approximate only, including locations of site features based on observations from Sanborn Head's site visit on July 10, 2012.

3. Groundwater elevations may vary due to seasonal or other changes including precipitation, recharge, temperature and other factors.

4. The groundwater elevation contours are based on interpolation between widely-spaced data points, and have been developed in accordance with generally acceptable hydrogeologic principles to illustrate general trends in groundwater elevations and flow. Other interpretations are possible, and actual conditions may vary from those depicted in this figure.

5. Refer to Figure 2 for additional notes and legend.

Legend

116.24 — Groundwater elevation in feet measured October 24, 2012 (* indicates groundwater elevation inferred to be affected by localized condition [e.g., non-water table well, non-stabilized water level] and/or change in measurement point elevation; calculated elevation not considered for contouring purposes).

117 — Groundwater elevation contour in feet (dashed where less constrained). Note that contour intervals are variable.

Inferred groundwater flow direction

Feet
75' 37.5' 0 75' 150'

SANBORN HEAD

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APPENDIX A

Data Validation Reports / Laboratory Reports

APPENDIX A.1

NHDPHS Laboratory
Validation and Laboratory Reports

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 2.3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-101

EQUIP BLANK = ~~Stainless Steel Hand Tools~~ SM 11-21-12

Lab to choose site-specific MS/MSD

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-107_0-.5	10/22/12 9:22	1	S	X									A209694001 10/22/12 09:22
MHK_SS-107_1-2	10/22/12 9:38	1	S	X									A209694002 10/22/12 09:38
MHK_SS-110_0-.5	10/22/12 9:55	1	S	X									A209694003 10/22/12 09:55
MHK_SS-110_1-2	10/22/12 10:05	1	S	X									A209694004 10/22/12 10:05
MHK_SS-116_0-.5	10/22/12 10:18	1	S	X									A209694005 10/22/12 10:18
MHK_SS-116_1-2	10/22/12 10:28	1	S	X									A209694006 10/22/12 10:28
MHK_SS-122_0-.5	10/22/12 11:28	1	S	X									A209694007 10/22/12 11:28
MHK_SS-122_1-2	10/22/12 11:38	1	S	X									A209694008 10/22/12 11:38
MHK_SS-137_0-.5	10/22/12 11:50	1	S	X									A209694009 10/22/12 11:50
MHK_SS-137_1-2	10/22/12 11:58	1	S	X									A209694010 10/22/12 11:58 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/23/12 16:05 Received By _____ Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By _____ Date and Time _____ Received By _____

Relinquished By _____ Date and Time _____ **Received For Laboratory By** T. Wells

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By [signature] Date 1-11-13

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 2.3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-101

EQUIP BLANK = ~~Stainless Steel Hand Tools~~ (SN) 11-25-12

Lab to choose site-specific MS/MSD

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-139_0-.5	10/22/12 12:10	1	S	X									A209694011 10/22/12 12:10
MHK_SS-139_1-2	10/22/12 12:20	1	S	X									A209694012 10/22/12 12:20
MHK_SS-141_0-.5	10/22/12 12:32	1	S	X									A209694013 10/22/12 12:32
MHK_SS-143_0-.5	10/22/12 10:40	1	S	X									A209694014 10/22/12 10:40
MHK_SS-147_0-.5	10/22/12 9:05	1	S	X									A209694015 10/22/12 09:05
MHK_SS-149_0-.5	10/22/12 8:50	1	S	X									A209694016 10/22/12 08:50
MHK_SS-111_0-.5	10/23/12 9:43	1	S	X								10-23	A209694017 10/22/12 09:43
MHK_SS-111_1-2	10/23/12 9:50	1	S	X								10-23	A209694018 10/22/12 09:50
MHK_SS-117_0-.5	10/23/12 10:49	1	S	X								10-23	A209694019 10/22/12 10:49
MHK_SS-117_1-2	10/23/12 11:04	1	S	X								10-23	A209694020 10/22/12 11:04

04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

RR 10-25-12

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/23/12 16:05 Received By

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By Date and Time Received By

Relinquished By Date and Time **Received For Laboratory By** T. Wells

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By [signature] Date 1-11-13

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 2.3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-101

EQUIP BLANK = ~~Stainless Steel Hand Tools~~ LSB 11-21-12

Lab to choose site-specific MS/MSD

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-138_0-.5	10/23/12 12:10	1	S	X									A209694021 10/23/12 12:10
MHK_SS-138_1-2	10/23/12 12:24	1	S	X									A209694022 10/23/12 12:24
MHK_SS-140_0-.5	10/23/12 12:39	1	S	X									A209694023 10/23/12 12:39
MHK_SS-140_1-2	10/23/12 12:52	1	S	X									A209694024 10/23/12 12:52
MHK_SS-145_0-.5	10/23/12 9:04	1	S	X									A209694025 10/23/12 09:04
MHK_SS-151_0-.5	10/23/12 10:09	1	S	X									A209694026 10/23/12 10:09
MHK_SS-152_0-.5	10/23/12 10:20	1	S	X									A209694027 10/23/12 10:20
MHK_SS-153_0-.5	10/23/12 10:37	1	S	X									A209694028
MHK_SS-154_0-.5	10/23/12 11:16	1	S	X									A209694029 10/23/12 11:16
MHK_SS-155_0-.5	10/23/12 11:30	1	S	X									A209694030 10/23/12 11:30

04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By Kelly McCutcheon Date and Time 10/23/12 16:05 Received By

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=___

Relinquished By Date and Time Received By

Relinquished By Date and Time **Received For Laboratory By** T. Wells

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By R. Bat Date 1-11-13

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 2.3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-101

EQUIP BLANK = ~~Stainless Steel Hand Tools~~ LSB 11-21-12

Lab to choose site-specific MS/MSD

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
OW-101	10/23/12 12:39	1	S	X									A209694031 10/23/12 12:39 04-0007207
EQUIP BLANK	10/23/12 13:30	1	AQ	X								Hand Auger Equip (LSB)	A209694032 10/23/12 13:30 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/23/12 16:05 Received By

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=___

Relinquished By Date and Time Received By

Relinquished By Date and Time **Received For Laboratory By** T. Wells

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By [signature] Date 1-11-13

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)
NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name 04-0007207
Temperature of the sample or temperature blank				Temperature 2.3 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** **Cold Packs(s)** **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date____ Time____ Initials
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: Date/Time Name of Staff Releasing Sample:

Rev 4
5-15-08

Completed By LW Date 10-23-12

QC Results for Work Order A209694 - Soil Metals

Relative Percent Difference (RPD)							
Sample and Blind Field Duplicate							
RPD = 50% for Soil Samples							
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Cadmium**	**Lead**	**Manganese**	**Mercury**
		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
A209694023	MHK_SS-140_0-.5	9.74	36.0	0.6444	43.4	255	0.8598
A209694031	OW-101	9.76	45.4	0.7034	43.0	282	2.33
RPD %		**0**	**23**	**9**	**-1**	**10**	**92**
Equipment Blank Results							
A209694032	EQUIP BLANK	No metals detected					
	Hand Auger & Equip						

The duplicate result for Mercury was over the 50% RPD for Soil Samples.

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A2099694
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	December 10, 2012
Samples:	
Metals:	31 soil samples and Equip Blank
Coments:	SDG MT2-101 EQUIP BLANK = Hand Auger Equip

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

The result for antimony in the laboratory control sample was below the lower control limit. Antimony results may be biased low.

The mercury result for sample MHK_SS-138_0-.5 (A209694021) was above the instrument calibration range. It was not diluted and reported as an estimated value. High calibration equivalent is 0.59 mg/kg dry.

Samples MHK_SS-138_0-.5, MHK_SS-138_0-1-2, MHK_SS-140_0-.5, OW-101 DUP resulted in vanadium concentrations <0 mg/kg Dry. Sample digests were diluted and reanalyzed with similar results. There is an apparent matrix effect. Results should be considered biased low.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The background concentration MHK_SS-117_1-2 (A209694020) for manganese was much greater than the spike amount; matrix spike and matrix spike recoveries may not be valid. The matrix spike/matrix spike duplicate recoveries for antimony were below the lower control limit

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The result for antimony in the laboratory control sample was below the lower control limit. Antimony results may be biased low.

QUALITY CONTROL DATA

Work Order: A209694-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1755,3471 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A209694001 thru A201694020,

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	7.0	12	11.3-162	19	272 *
Arsenic	mg/kg	49.1	45.0	92	32.4-65.8	66	134
Barium	mg/kg	111	120.0	108	79.6-142	72	128
Cadmium	mg/kg	67.9	79.0	116	49.7-95	73	140
Lead	mg/kg	82.8	76.0	92	57.5-108	69	130
Manganese	mg/kg	274	265.0	97	202-346	74	126
Thallium	mg/kg	39.3	49.0	125	23.7-57.2	60	146
Vanadium	mg/kg	96.1	95.0	99	62.4-130	65	135

* Recovery failure

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209694020 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/kg	ND	2	0.32	0.320	16	16	19-272	0.0
Arsenic	mg/kg	6.91	2	8.37	8.31	73	70	66-134	0.7
Barium	mg/kg	20.3	2	22.34	21.86	102	78	72-128	2.2
Cadmium	mg/kg	ND	2	1.96	1.92	98	96	73-140	2.1
Lead	mg/kg	3.17	2	5.19	5.07	101	95	69-130	2.3
Manganese *	mg/kg	124	2	127.76	128.42	188	221	74-126	0.5
Thallium	mg/kg	ND	2	2.04	1.98	102	99	60-146	3.0
Vanadium	mg/kg	10.6	2	12.14	12.04	77	72	65-135	0.8

* Background concentration much greater than spike amount; Recoveries may not be valid.

QUALITY CONTROL DATA

Work Order: A209694-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1755,3471 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A209694021 thru A201694031

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	11.0	18	11.3-162	19	272 *
Arsenic	mg/kg	49.1	46.0	94	32.4-65.8	66	134
Barium	mg/kg	111	134.0	121	79.6-142	72	128
Cadmium	mg/kg	67.9	88.0	130	49.7-95	73	140
Lead	mg/kg	82.8	99.0	120	57.5-108	69	130
Manganese	mg/kg	274	314.0	115	202-346	74	126
Thallium	mg/kg	39.3	53.0	135	23.7-57.2	60	146
Vanadium	mg/kg	96.1	99.0	103	62.4-130	65	135

* Recovery failure

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209694030 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/kg	ND	2	0.44	0.360	22	18	19-272	20.0
Arsenic	mg/kg	5.38	2	6.96	7.02	79	82	66-134	0.9
Barium	mg/kg	39.5	2	39.02	39.74	-24	12	72-128	1.8
Cadmium	mg/kg	0.266	2	2.326	2.326	103	103	73-140	0.0
Lead	mg/kg	20.7	2	20.78	21.88	4	59	69-130	5.2
Manganese *	mg/kg	344	2	Off Scale	Off Scale	NA	NA	74-126	NA
Thallium	mg/kg	ND	2	2.06	2.04	103	102	60-146	1.0
Vanadium	mg/kg	8.86	2	10.38	10.62	76	88	65-135	2.3

* Background concentration much greater than spike amount; Recoveries may not be valid.

QUALITY CONTROL DATA

Work Order: A209694-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1160
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209694022 thru A209694031

Laboratory Method Blank:

Parameter	Units	Result	RDL
Mercury	ug/g	ND	0.05

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/g	6.91	6.00	87	51-149

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209694021 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury *	ug/g	3.09	0.25	3.14	3.38	20	116	70-130	7.4

* Mercury result above instrument calibration; background concentration much greater than spike amount recovery data not valid.

QUALITY CONTROL DATA

Work Order: A209694-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1160
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209694022 thru A209694031

Laboratory Method Blank:

Parameter	Units	Result	RDL
Mercury	ug/g	ND	0.05

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/g	6.91	6.00	87	51-149

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209694031 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury *	ug/g	2.33	0.25	1.66	NA	NA	NA	70-130	NA

* Background concentration much greater than spike concentration. Matrix Spike result above instrument calibration.
Matrix Spike Duplicate not analyzed.

NH DIVISION OF
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Wednesday, January 09, 2013

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Wednesday, Oct 24, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Barinelli Ph.D.
Organics Supervisor

Authorized Signature

Enclosures

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Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209694 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209694 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209694001	MHK_SS-107_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 09:22	10/24/2012	198404002
A209694002	MHK_SS-107_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 09:38	10/24/2012	198404002
A209694003	MHK_SS-110_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 09:55	10/24/2012	198404002
A209694004	MHK_SS-110_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 10:05	10/24/2012	198404002
A209694005	MHK_SS-116_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 10:18	10/24/2012	198404002
A209694006	MHK_SS-116_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 10:28	10/24/2012	198404002
A209694007	MHK_SS-122_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 11:28	10/24/2012	198404002
A209694008	MHK_SS-122_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 11:38	10/24/2012	198404002
A209694009	MHK_SS-137_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 11:50	10/24/2012	198404002
A209694010	MHK_SS-137_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 11:58	10/24/2012	198404002
A209694011	MHK_SS-139_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 12:10	10/24/2012	198404002
A209694012	MHK_SS-139_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 12:20	10/24/2012	198404002
A209694013	MHK_SS-141_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 12:32	10/24/2012	198404002
A209694014	MHK_SS-143_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 10:40	10/24/2012	198404002
A209694015	MHK_SS-147_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 09:05	10/24/2012	198404002
A209694016	MHK_SS-149_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/22/2012 08:50	10/24/2012	198404002
A209694017	MHK_SS-111_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 09:43	10/24/2012	198404002
A209694018	MHK_SS-111_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 09:50	10/24/2012	198404002
A209694019	MHK_SS-117_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 10:49	10/24/2012	198404002
A209694020	MHK_SS-117_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 11:04	10/24/2012	198404002
A209694021	MHK_SS-138_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 12:10	10/24/2012	198404002
A209694022	MHK_SS-138_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 12:24	10/24/2012	198404002
A209694023	MHK_SS-140_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 12:39	10/24/2012	198404002
A209694024	MHK_SS-140_1-2	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 12:52	10/24/2012	198404002
A209694025	MHK_SS-145_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 09:04	10/24/2012	198404002
A209694026	MHK_SS-151_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 10:09	10/24/2012	198404002
A209694027	MHK_SS-152_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 10:20	10/24/2012	198404002
A209694028	MHK_SS-153_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 10:37	10/24/2012	198404002
A209694029	MHK_SS-154_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 11:16	10/24/2012	198404002
A209694030	MHK_SS-155_0-.5	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 11:30	10/24/2012	198404002
A209694031	OW-101 DUP	MOHAWK TANNERY, NASHUA	SOIL	10/23/2012 12:39	10/24/2012	198404002
A209694032	EQUIP BLANK	MOHAWK TANNERY, NASHUA-HAND AUGER & EQUIP	WATER	10/23/2012 13:30	10/24/2012	

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Phone: (603) 271-3445
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ANALYTICAL REPORT COMMENTS AND QUALIFIERS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Parameter Footnotes

E	Estimated value;result exceeded upper calibration level.
M	Results may be biased low due to apparent matrix interference.

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694001**
Sample ID: **MHK_SS-107_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.219	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	5.38	mg/kg Dry	0.2189	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	38.1	mg/kg Dry	1.09	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4377	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	13.2	mg/kg Dry	0.2189	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	541	mg/kg Dry	10.9	10	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.219	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	13.1	mg/kg Dry	1.09	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0973	mg/kg Dry	0.0585	1.01	11/15/2012 08:00	11/19/2012 10:40		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694002**	Matrix:	SOIL
Sample ID:	**MHK_SS-107_1-2**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.228	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	5.85	mg/kg Dry	0.2284	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	27.8	mg/kg Dry	1.14	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4567	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	3.87	mg/kg Dry	0.2284	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	177	mg/kg Dry	2.28	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.228	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	10.3	mg/kg Dry	1.14	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0560	0.98	11/15/2012 08:00	11/19/2012 10:43		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694003**
Sample ID: **MHK_SS-110_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.230	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	5.17	mg/kg Dry	0.2296	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	30.0	mg/kg Dry	1.15	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	0.7805	mg/kg Dry	0.4591	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	20.6	mg/kg Dry	0.2296	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	505	mg/kg Dry	11.5	10	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.230	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	12.4	mg/kg Dry	1.15	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0599	1.01	11/15/2012 08:00	11/19/2012 10:45		

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694004**	Matrix:	SOIL
Sample ID:	**MHK_SS-110_1-2**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.223	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	5.48	mg/kg Dry	0.2235	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	22.3	mg/kg Dry	1.12	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4469	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	2.89	mg/kg Dry	0.2235	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	118	mg/kg Dry	2.23	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.223	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	8.73	mg/kg Dry	1.12	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0512	0.92	11/15/2012 08:00	11/19/2012 10:48		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694005**	Matrix:	SOIL
Sample ID:	**MHK_SS-116_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.233	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	5.76	mg/kg Dry	0.2330	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	26.9	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4659	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	22.4	mg/kg Dry	0.2330	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	268	mg/kg Dry	4.66	4	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.233	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	15.9	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0599	1	11/15/2012 08:00	11/19/2012 10:50		

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694006**	Matrix:	SOIL
Sample ID:	**MHK_SS-116_1-2**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.232	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	5.45	mg/kg Dry	0.2325	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	39.8	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4650	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	3.85	mg/kg Dry	0.2325	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	238	mg/kg Dry	4.65	4	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.232	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	10.1	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0638	1.03	11/15/2012 08:00	11/19/2012 10:52		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694007**
Sample ID: **MHK_SS-122_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.215	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	7.65	mg/kg Dry	0.2154	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	24.5	mg/kg Dry	1.08	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	0.5514	mg/kg Dry	0.4307	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	13.6	mg/kg Dry	0.2154	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	181	mg/kg Dry	2.15	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.215	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	8.31	mg/kg Dry	1.08	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0917	mg/kg Dry	0.0570	0.99	11/15/2012 08:00	11/19/2012 10:55		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694008**	Matrix:	SOIL
Sample ID:	**MHK_SS-122_1-2**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.238	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	14.9	mg/kg Dry	0.2379	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	22.2	mg/kg Dry	1.19	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4757	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	5.35	mg/kg Dry	0.2379	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	403	mg/kg Dry	4.76	4	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.238	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	10.2	mg/kg Dry	1.19	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0501	0.85	11/15/2012 08:00	11/19/2012 10:57		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694009**	Matrix:	SOIL
Sample ID:	**MHK_SS-137_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.243	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	9.59	mg/kg Dry	0.2429	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	32.5	mg/kg Dry	1.21	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	0.5442	mg/kg Dry	0.4859	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	25.5	mg/kg Dry	0.2429	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	165	mg/kg Dry	2.43	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.243	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	3.99	mg/kg Dry	1.21	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1090	mg/kg Dry	0.0524	0.9	11/15/2012 08:00	11/19/2012 10:59		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694010**
Sample ID: **MHK_SS-137_1-2**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.219	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	7.65	mg/kg Dry	0.2192	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	19.4	mg/kg Dry	1.10	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4383	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	9.35	mg/kg Dry	0.2192	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	152	mg/kg Dry	2.19	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.219	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	7.01	mg/kg Dry	1.10	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0573	mg/kg Dry	0.0539	0.971	11/15/2012 08:00	11/19/2012 11:07		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694011**
Sample ID: **MHK_SS-139_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.235	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	11.7	mg/kg Dry	0.2352	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	44.7	mg/kg Dry	1.18	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	1.85	mg/kg Dry	0.2352	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	43.0	mg/kg Dry	0.2352	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	217	mg/kg Dry	4.70	4	11/15/2012 00:00	12/12/2012 13:04	0.05	
Thallium	ND	mg/kg Dry	0.235	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	2.62	mg/kg Dry	1.18	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2952	mg/kg Dry	0.0652	1.05	11/15/2012 08:00	11/19/2012 11:14		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694012**
Sample ID: **MHK_SS-139_1-2**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.229	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	7.86	mg/kg Dry	0.2291	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	35.3	mg/kg Dry	1.15	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4582	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	26.0	mg/kg Dry	0.2291	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	177	mg/kg Dry	2.29	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.229	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	7.79	mg/kg Dry	1.15	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0933	mg/kg Dry	0.0531	0.917	11/15/2012 08:00	11/19/2012 11:16		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694013**
Sample ID: **MHK_SS-141_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.230	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	6.16	mg/kg Dry	0.2301	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	26.8	mg/kg Dry	1.15	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	1.33	mg/kg Dry	0.4601	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	42.6	mg/kg Dry	0.2301	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	117	mg/kg Dry	2.30	2	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.230	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	7.74	mg/kg Dry	1.15	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.6793	mg/kg Dry	0.1058	1.8	11/15/2012 08:00	11/19/2012 12:29		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694014**	Matrix:	SOIL
Sample ID:	**MHK_SS-143_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.479	mg/kg Dry	0.242	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	15.5	mg/kg Dry	2.42	10	11/15/2012 00:00	11/16/2012 12:16	0.01	
Barium	61.3	mg/kg Dry	1.21	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	3.87	mg/kg Dry	0.2422	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	58.7	mg/kg Dry	0.2422	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	935	mg/kg Dry	12.1	10	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.242	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	9.46	mg/kg Dry	2.42	0.2	11/15/2012 00:00	12/12/2012 13:08		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.5464	mg/kg Dry	0.0672	1.03	11/15/2012 08:00	11/19/2012 11:21		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694015**	Matrix:	SOIL
Sample ID:	**MHK_SS-147_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	2.84	mg/kg Dry	0.269	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	20.6	mg/kg Dry	2.69	10	11/15/2012 00:00	11/16/2012 12:16	0.01	
Barium	75.9	mg/kg Dry	1.34	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	5.52	mg/kg Dry	0.5379	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	223	mg/kg Dry	2.69	10	11/15/2012 00:00	11/16/2012 12:16	0.015	
Manganese	803	mg/kg Dry	13.4	10	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.269	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	24.3	mg/kg Dry	13.4	10	11/15/2012 00:00	11/16/2012 12:16		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	1.43	mg/kg Dry	0.4058	4.81	11/15/2012 08:00	11/19/2012 12:31		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694016**
Sample ID: **MHK_SS-149_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.470	mg/kg Dry	0.237	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	7.92	mg/kg Dry	0.2374	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	19.7	mg/kg Dry	1.19	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	0.7479	mg/kg Dry	0.4749	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	42.6	mg/kg Dry	0.2374	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	91.2	mg/kg Dry	1.19	250	11/15/2012 00:00	11/16/2012 10:21	0.05	
Thallium	ND	mg/kg Dry	0.237	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	8.82	mg/kg Dry	1.19	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2983	mg/kg Dry	0.0628	1.075	11/15/2012 08:00	11/19/2012 12:26		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694017**	Matrix:	SOIL
Sample ID:	**MHK_SS-111_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.754	mg/kg Dry	0.242	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	9.79	mg/kg Dry	0.2424	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	26.7	mg/kg Dry	1.21	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	1.56	mg/kg Dry	0.4847	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	99.9	mg/kg Dry	0.2424	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	71.3	mg/kg Dry	1.21	250	11/15/2012 00:00	11/16/2012 10:21	0.05	
Thallium	ND	mg/kg Dry	0.242	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	24.6	mg/kg Dry	1.21	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.6662	mg/kg Dry	0.1118	1.9	11/15/2012 08:00	11/19/2012 12:39		

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Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694018**
Sample ID: **MHK_SS-111_1-2**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.246	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	4.13	mg/kg Dry	0.2460	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	25.1	mg/kg Dry	1.23	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4921	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	4.65	mg/kg Dry	0.2460	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	227	mg/kg Dry	4.92	4	11/15/2012 00:00	11/16/2012 12:16	0.05	
Thallium	ND	mg/kg Dry	0.246	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	8.36	mg/kg Dry	1.23	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0682	mg/kg Dry	0.0496	0.847	11/15/2012 08:00	11/19/2012 11:32		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694019**	Matrix:	SOIL
Sample ID:	**MHK_SS-117_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.232	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	4.95	mg/kg Dry	0.2323	250	11/15/2012 00:00	11/16/2012 10:21	0.01	
Barium	18.5	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.4645	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	2.91	mg/kg Dry	0.2323	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	79.1	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21	0.05	
Thallium	ND	mg/kg Dry	0.232	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	8.71	mg/kg Dry	1.16	250	11/15/2012 00:00	11/16/2012 10:21		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0537	0.99	11/15/2012 08:00	11/19/2012 11:34		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694020**
Sample ID: **MHK_SS-117_1-2**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.225	250	11/15/2012 00:00	11/16/2012 10:21	0.006	
Arsenic	6.91	mg/kg Dry	0.4504	2	11/15/2012 00:00	12/3/2012 14:10	0.01	
Barium	20.3	mg/kg Dry	1.13	250	11/15/2012 00:00	11/16/2012 10:21	2	
Cadmium	ND	mg/kg Dry	0.2252	250	11/15/2012 00:00	11/16/2012 10:21	0.005	
Lead	3.17	mg/kg Dry	0.2252	250	11/15/2012 00:00	11/16/2012 10:21	0.015	
Manganese	124	mg/kg Dry	2.25	2	11/15/2012 00:00	12/3/2012 14:10	0.05	
Thallium	ND	mg/kg Dry	0.225	250	11/15/2012 00:00	11/16/2012 10:21	0.002	
Vanadium	10.6	mg/kg Dry	2.25	2	11/15/2012 00:00	12/3/2012 14:10		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0589	1.05	11/15/2012 08:00	11/19/2012 11:36		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694021**
Sample ID: **MHK_SS-138_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.037	mg/kg Dry	0.030	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	14.3	mg/kg Dry	0.4943	16.7	11/29/2012 00:00	12/12/2012 13:08	0.01	
Barium	246	mg/kg Dry	12.4	5	11/29/2012 00:00	12/3/2012 14:23	2	
Cadmium	0.8495	mg/kg Dry	0.0296	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	187	mg/kg Dry	0.4943	16.7	11/29/2012 00:00	12/12/2012 13:08	0.015	
Manganese	323	mg/kg Dry	12.4	5	11/29/2012 00:00	12/3/2012 14:23	0.05	
Thallium	ND	mg/kg Dry	0.030	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	ND	mg/kg Dry	2.47	16.7	11/29/2012 00:00	12/12/2012 13:08		M
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	3.09	mg/kg Dry	0.0593	0.877	11/15/2012 08:00	11/19/2012 11:44		E

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694022**
Sample ID: **MHK_SS-138_1-2**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.407	mg/kg Dry	0.231	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	13.2	mg/kg Dry	0.2315	250	11/29/2012 00:00	12/3/2012 10:46	0.01	
Barium	365	mg/kg Dry	4.63	2	11/29/2012 00:00	12/3/2012 14:32	2	
Cadmium	7.04	mg/kg Dry	0.2315	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	167	mg/kg Dry	0.4630	2	11/29/2012 00:00	12/12/2012 14:27	0.015	
Manganese	175	mg/kg Dry	2.31	2	11/29/2012 00:00	12/12/2012 14:27	0.05	
Thallium	ND	mg/kg Dry	0.231	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	ND	mg/kg Dry	2.31	2	11/29/2012 00:00	12/12/2012 14:27		M
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	3.74	mg/kg Dry	0.6479	9.708	11/15/2012 08:00	11/19/2012 12:44		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694023**	Matrix:	SOIL
Sample ID:	**MHK_SS-140_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.203	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	9.74	mg/kg Dry	0.8132	4	11/29/2012 00:00	12/12/2012 14:36	0.01	
Barium	36.0	mg/kg Dry	1.02	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	0.6444	mg/kg Dry	0.2033	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	43.4	mg/kg Dry	0.2033	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	255	mg/kg Dry	4.07	4	11/29/2012 00:00	12/12/2012 14:36	0.05	
Thallium	ND	mg/kg Dry	0.203	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	ND	mg/kg Dry	4.07	4	11/29/2012 00:00	12/12/2012 14:36		M
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.8598	mg/kg Dry	0.1243	2.08	11/15/2012 08:00	11/19/2012 12:46		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694024**
Sample ID: **MHK_SS-140_1-2**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.205	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	7.84	mg/kg Dry	0.8190	4	11/29/2012 00:00	12/12/2012 10:44	0.01	
Barium	26.2	mg/kg Dry	1.02	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	ND	mg/kg Dry	0.2047	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	13.0	mg/kg Dry	0.2047	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	200	mg/kg Dry	4.09	4	11/29/2012 00:00	12/12/2012 10:44	0.05	
Thallium	ND	mg/kg Dry	0.205	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	8.76	mg/kg Dry	4.09	4	11/29/2012 00:00	12/12/2012 10:44		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0575	1	11/15/2012 08:00	11/19/2012 11:55		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694025**
Sample ID: **MHK_SS-145_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.497	mg/kg Dry	0.210	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	15.1	mg/kg Dry	0.4190	2	11/29/2012 00:00	12/12/2012 10:53	0.01	
Barium	62.9	mg/kg Dry	1.05	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	4.16	mg/kg Dry	0.2095	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	54.1	mg/kg Dry	0.2095	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	960	mg/kg Dry	21.0	10	11/29/2012 00:00	12/12/2012 10:09	0.05	
Thallium	ND	mg/kg Dry	0.210	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	9.16	mg/kg Dry	2.10	2	11/29/2012 00:00	12/12/2012 10:53		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.4746	mg/kg Dry	0.0590	0.952	11/15/2012 08:00	11/19/2012 11:58		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694026**
Sample ID: **MHK_SS-151_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.186	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	5.19	mg/kg Dry	0.3725	2	11/29/2012 00:00	12/12/2012 10:57	0.01	
Barium	22.8	mg/kg Dry	0.9314	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	ND	mg/kg Dry	0.1863	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	5.04	mg/kg Dry	0.1863	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	121	mg/kg Dry	1.86	2	11/29/2012 00:00	12/12/2012 10:57	0.05	
Thallium	ND	mg/kg Dry	0.186	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	9.34	mg/kg Dry	1.86	2	11/29/2012 00:00	12/12/2012 10:57		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0551	1.01	11/15/2012 08:00	11/19/2012 12:00		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694027**	Matrix:	SOIL
Sample ID:	**MHK_SS-152_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.202	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	4.66	mg/kg Dry	0.4043	2	11/29/2012 00:00	12/12/2012 11:06	0.01	
Barium	36.6	mg/kg Dry	1.01	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	ND	mg/kg Dry	0.2022	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	3.28	mg/kg Dry	0.2022	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	380	mg/kg Dry	10.1	5	11/29/2012 00:00	12/12/2012 10:09	0.05	
Thallium	ND	mg/kg Dry	0.202	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	9.24	mg/kg Dry	2.02	2	11/29/2012 00:00	12/12/2012 11:06		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0579	1.04	11/15/2012 08:00	11/19/2012 12:03		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694028**
Sample ID: **MHK_SS-153_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.205	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	4.99	mg/kg Dry	0.8216	4	11/29/2012 00:00	12/12/2012 11:10	0.01	
Barium	25.8	mg/kg Dry	1.03	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	0.3943	mg/kg Dry	0.2054	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	35.6	mg/kg Dry	0.2054	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	228	mg/kg Dry	4.11	4	11/29/2012 00:00	12/12/2012 11:10	0.05	
Thallium	ND	mg/kg Dry	0.205	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	15.1	mg/kg Dry	4.11	4	11/29/2012 00:00	12/12/2012 11:10		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2481	mg/kg Dry	0.0491	0.855	11/15/2012 08:00	11/19/2012 12:05		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209694029**
Sample ID: **MHK_SS-154_0-.5**
Description: MOHAWK TANNERY, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.191	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	4.25	mg/kg Dry	0.7659	4	11/29/2012 00:00	12/12/2012 11:15	0.01	
Barium	20.0	mg/kg Dry	0.9574	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	ND	mg/kg Dry	0.1915	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	13.1	mg/kg Dry	0.1915	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	259	mg/kg Dry	3.83	4	11/29/2012 00:00	12/12/2012 11:15	0.05	
Thallium	ND	mg/kg Dry	0.191	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	11.7	mg/kg Dry	3.83	4	11/29/2012 00:00	12/12/2012 11:15		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0866	mg/kg Dry	0.0500	0.9	11/15/2012 08:00	11/19/2012 12:08		

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Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694030**	Matrix:	SOIL
Sample ID:	**MHK_SS-155_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.191	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	5.38	mg/kg Dry	0.7648	4	11/29/2012 00:00	12/12/2012 11:19	0.01	
Barium	39.5	mg/kg Dry	0.9560	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	0.2658	mg/kg Dry	0.1912	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	20.7	mg/kg Dry	0.1912	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	344	mg/kg Dry	3.82	4	11/29/2012 00:00	12/12/2012 11:19	0.05	
Thallium	ND	mg/kg Dry	0.191	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	8.86	mg/kg Dry	3.82	4	11/29/2012 00:00	12/12/2012 11:19		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2686	mg/kg Dry	0.0568	1.01	11/15/2012 08:00	11/19/2012 12:10		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694031**	Matrix:	SOIL
Sample ID:	**OW-101 DUP**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.212	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	9.76	mg/kg Dry	0.8475	4	11/29/2012 00:00	12/12/2012 11:23	0.01	
Barium	45.4	mg/kg Dry	1.06	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	0.7034	mg/kg Dry	0.2119	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	43.0	mg/kg Dry	0.2119	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	282	mg/kg Dry	4.24	4	11/29/2012 00:00	12/12/2012 11:23	0.05	
Thallium	ND	mg/kg Dry	0.212	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	ND	mg/kg Dry	4.24	4	11/29/2012 00:00	12/12/2012 11:23		M
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	2.33	mg/kg Dry	0.6147	10.3	11/15/2012 08:00	11/19/2012 12:49		

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ANALYTICAL RESULTS

Workorder: A209694 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209694032**	Matrix:	WATER
Sample ID:	**EQUIP BLANK**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA-HAND AUGER & EQUIP	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:35	0.002	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

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Invoice To ROBIN MONGEON
NH DEPT OF
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29 HAZEN DR
CONCORD NH 03301

Invoice Number 92177
Invoice Date 12/31/2012
Due Date 1/30/2013
Account ID 04-0007207
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Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694001	MHK_SS-107_	10/22/2012 09:22	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694001	MHK_SS-107_	10/22/2012 09:22	DRY WEIGHT	$20.00
A209694002	MHK_SS-107_	10/22/2012 09:38	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694002	MHK_SS-107_	10/22/2012 09:38	DRY WEIGHT	$20.00
A209694003	MHK_SS-110_	10/22/2012 09:55	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	MANGANESE,200.8,SO,ICP/MS	$15.00

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Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694003	MHK_SS-110_	10/22/2012 09:55	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694003	MHK_SS-110_	10/22/2012 09:55	DRY WEIGHT	$20.00
A209694004	MHK_SS-110_	10/22/2012 10:05	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694004	MHK_SS-110_	10/22/2012 10:05	DRY WEIGHT	$20.00
A209694005	MHK_SS-116_	10/22/2012 10:18	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694005	MHK_SS-116_	10/22/2012 10:18	DRY WEIGHT	$20.00

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Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694006	MHK_SS-116_	10/22/2012 10:28	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694006	MHK_SS-116_	10/22/2012 10:28	DRY WEIGHT	$20.00
A209694007	MHK_SS-122_	10/22/2012 11:28	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694007	MHK_SS-122_	10/22/2012 11:28	DRY WEIGHT	$20.00
A209694008	MHK_SS-122_	10/22/2012 11:38	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	MANGANESE,200.8,SO,ICP/MS	$15.00

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Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694008	MHK_SS-122_	10/22/2012 11:38	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694008	MHK_SS-122_	10/22/2012 11:38	DRY WEIGHT	$20.00
A209694009	MHK_SS-137_	10/22/2012 11:50	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694009	MHK_SS-137_	10/22/2012 11:50	DRY WEIGHT	$20.00
A209694010	MHK_SS-137_	10/22/2012 11:58	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694010	MHK_SS-137_	10/22/2012 11:58	DRY WEIGHT	$20.00

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Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694011	MHK_SS-139_	10/22/2012 12:10	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694011	MHK_SS-139_	10/22/2012 12:10	DRY WEIGHT	$20.00
A209694012	MHK_SS-139_	10/22/2012 12:20	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694012	MHK_SS-139_	10/22/2012 12:20	DRY WEIGHT	$20.00
A209694013	MHK_SS-141_	10/22/2012 12:32	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	MANGANESE,200.8,SO,ICP/MS	$15.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
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FAX (603) 271-2997

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29 HAZEN DR
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Invoice Number 92177
Invoice Date 12/31/2012
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Account ID 04-0007207
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Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694013	MHK_SS-141_	10/22/2012 12:32	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694013	MHK_SS-141_	10/22/2012 12:32	DRY WEIGHT	$20.00
A209694014	MHK_SS-143_	10/22/2012 10:40	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694014	MHK_SS-143_	10/22/2012 10:40	DRY WEIGHT	$20.00
A209694015	MHK_SS-147_	10/22/2012 09:05	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694015	MHK_SS-147_	10/22/2012 09:05	DRY WEIGHT	$20.00

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Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694016	MHK_SS-149_	10/22/2012 08:50	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694016	MHK_SS-149_	10/22/2012 08:50	DRY WEIGHT	$20.00
A209694017	MHK_SS-111_	10/23/2012 09:43	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694017	MHK_SS-111_	10/23/2012 09:43	DRY WEIGHT	$20.00
A209694018	MHK_SS-111_	10/23/2012 09:50	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	MANGANESE,200.8,SO,ICP/MS	$15.00

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Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694018	MHK_SS-111_	10/23/2012 09:50	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694018	MHK_SS-111_	10/23/2012 09:50	DRY WEIGHT	$20.00
A209694019	MHK_SS-117_	10/23/2012 10:49	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694019	MHK_SS-117_	10/23/2012 10:49	DRY WEIGHT	$20.00
A209694020	MHK_SS-117_	10/23/2012 11:04	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694020	MHK_SS-117_	10/23/2012 11:04	DRY WEIGHT	$20.00

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Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694021	MHK_SS-138_	10/23/2012 12:10	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694021	MHK_SS-138_	10/23/2012 12:10	DRY WEIGHT	$20.00
A209694022	MHK_SS-138_	10/23/2012 12:24	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694022	MHK_SS-138_	10/23/2012 12:24	DRY WEIGHT	$20.00
A209694023	MHK_SS-140_	10/23/2012 12:39	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	MANGANESE,200.8,SO,ICP/MS	$15.00

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Lab ID	Sample ID	Collected	Test Description	Charge
A209694023	MHK_SS-140_	10/23/2012 12:39	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694023	MHK_SS-140_	10/23/2012 12:39	DRY WEIGHT	$20.00
A209694024	MHK_SS-140_	10/23/2012 12:52	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694024	MHK_SS-140_	10/23/2012 12:52	DRY WEIGHT	$20.00
A209694025	MHK_SS-145_	10/23/2012 09:04	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694025	MHK_SS-145_	10/23/2012 09:04	DRY WEIGHT	$20.00

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Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694026	MHK_SS-151_	10/23/2012 10:09	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694026	MHK_SS-151_	10/23/2012 10:09	DRY WEIGHT	$20.00
A209694027	MHK_SS-152_	10/23/2012 10:20	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694027	MHK_SS-152_	10/23/2012 10:20	DRY WEIGHT	$20.00
A209694028	MHK_SS-153_	10/23/2012 10:37	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	MANGANESE,200.8,SO,ICP/MS	$15.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92177
Invoice Date 12/31/2012
Due Date 1/30/2013
Account ID 04-0007207
PO

CC

Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694028	MHK_SS-153_	10/23/2012 10:37	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694028	MHK_SS-153_	10/23/2012 10:37	DRY WEIGHT	$20.00
A209694029	MHK_SS-154_	10/23/2012 11:16	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694029	MHK_SS-154_	10/23/2012 11:16	DRY WEIGHT	$20.00
A209694030	MHK_SS-155_	10/23/2012 11:30	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694030	MHK_SS-155_	10/23/2012 11:30	DRY WEIGHT	$20.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
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Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92177
Invoice Date 12/31/2012
Due Date 1/30/2013
Account ID 04-0007207
PO

CC

Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209694031	OW-101 DUP	10/23/2012 12:39	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	MANGANESE,200.8,SO,ICP/MS	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	THALLIUM,200.8,SO,ICP/MS	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	VANADIUM,200.8,SO,ICP/MS	$15.00
A209694031	OW-101 DUP	10/23/2012 12:39	DRY WEIGHT	$20.00
A209694032	EQUIP BLANK	10/23/2012 13:30	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209694032	EQUIP BLANK	10/23/2012 13:30	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
			Invoice Total	$4,940.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92177
Invoice Date 12/31/2012
Due Date 1/30/2013
Account ID 04-0007207
PO

CC

Workorder A209694
Project ID 04-0007207 - MOHAWK TANNERY

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$4,940.00

Client: 04-0007207
Invoice Number: 92177

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 3.7

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-102

Lab to choose site-specific MS/MSD

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275 31451

	Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
1	MHK_SS-101_0-.5	10/23/12 14:05	1	S	X								A209764001 10/23/12 14:05 04-0007207	
2	MHK_SS-102_0-.5	10/23/12 14:12	1	S	X									A209764002 10/23/12 14:12 04-0007207
3	MHK_SS-103_0-.5	10/23/12 14:33	1	S	X								A209764003 10/23/12 14:33 04-0007207	
4	MHK_SS-104_0-.5	10/23/12 14:19	1	S	X									A209764004 10/23/12 14:19 04-0007207
5	MHK_SS-105_0-.5	10/23/12 14:37	1	S	X								A209764005 10/23/12 14:37 04-0007207	
6	MHK_SS-106_0-.5	10/23/12 14:49	1	S	X									A209764006 10/23/12 14:49 04-0007207
7	MHK_SS-108_0-.5	10/23/12 14:57	1	S	X								A209764007 10/23/12 14:57 04-0007207	
8	MHK_SS-109_0-.5	10/23/12 15:05	1	S	X									A209764008 10/23/12 15:05 04-0007207
9	MHK_SS-112_0-.5	10/23/12 15:15	1	S	X								A209764009 10/23/12 15:15 04-0007207	
10	MHK_SS-113_0-.5	10/23/12 15:55	1	S	X									A209764010 10/23/12 15:55 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/25/12 14:25 Received By — Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By — Date and Time — Received By

Relinquished By — Date and Time 10/25/12 14:25 **Received For Laboratory By** [signature]

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Page 1 of 2 Data Reviewed By [signature] Date 1-11-13

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 3.7

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-102
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-114_0-.5	10/23/12 15:47	1	S	X								A209764011 10/23/12 15:47 04-0007207	
MHK_SS-115_0-.5	10/23/12 15:25	1	S	X									A209764012 10/23/12 15:25 04-0007207
OW-102	10/23/12 15:47	1	S	X								A209764013 10/23/12 15:47 04-0007207	

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By Kelly M Dubois Date and Time 10/25/12 14:25 Received By —

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By — Date and Time — Received By —

Relinquished By — Date and Time 10/25/12 14:25 **Received For Laboratory By**

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By Date 1-11-13

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)
NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name 04-0007207
Temperature of the sample or temperature blank	✓			Temperature 3.7 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage**, and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason ___				Date ___ Time ___ Initials ___
Additional Comments:				
If present, was the Custody of Seal intact?	✓			
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: ___ Date/Time Name of Staff Releasing Sample: ___

Rev 4
5-15-08

Completed By LSN Date 10-25-12

QC Results for Work Order A209764 - Soil Metals

Relative Percent Difference (RPD)						
Sample and Blind Field Duplicate						
RPD = 50% for Soil Samples						
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Lead**	**Manganese**	**Vanadium**
		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
A209764011	MHK_SS-114_0-.5	19.1	14.8	9.15	137	9.78
A209764013	OW-102	20.9	14.5	8.68	137	11.1
RPD %		**-9**	**2**	**5**	**0**	**13**
Equipment Blank Results						
No Equipment Blank						

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209764
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	January 11, 2013
Samples:	
Metals:	13 soil samples
Coments:	SDG MT2-102

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

The result for antimony in the laboratory control sample corresponding to samples A209764001-A209764009 was below the lower control limit. Antimony results may be biased low.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The background concentration MHK_SS-112_0-.5 (A209764009) for manganese was much greater than the spike amount; matrix spike and matrix spike recoveries may not be valid.

Matrix Spike/Matrix Spike Duplicate recoveries for barium and lead were above the upper control limit.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The result for antimony in the laboratory control sample corresponding to samples A209764001-A209764009 was below the lower control limit. Antimony results may be biased low.

QUALITY CONTROL DATA

Work Order: A209764-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1760,3478 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A209764001 thru A209764009

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	11.0	18	11.3-162	19	272 *
Arsenic	mg/kg	49.1	46.0	94	32.4-65.8	66	134
Barium	mg/kg	111	134.0	121	79.6-142	72	128
Cadmium	mg/kg	67.9	88.0	130	49.7-95	73	140
Lead	mg/kg	82.8	99.0	120	57.5-108	69	130
Manganese	mg/kg	274	314.0	115	202-346	74	126
Thallium	mg/kg	39.3	53.0	135	23.7-57.2	60	146
Vanadium	mg/kg	96.1	99.0	103	62.4-130	65	135

* Recovery failure

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209764009 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/kg	ND	2	0.38	0.420	19	21	19-272	10.0
Arsenic	mg/kg	6.16	2	8.48	7.88	116	86	66-134	7.3
Barium	mg/kg	30.9	2	34.28	36.5	169	280	72-128	6.3
Cadmium	mg/kg	ND	2	1.94	1.94	97	97	73-140	0.0
Lead	mg/kg	8.42	2	15.46	18.94	352	526	69-130	20.2
Manganese *	mg/kg	555	2	Off Scale	Off Scale			74-126	NA
Thallium	mg/kg	ND	2	2.08	2.1	104	105	60-146	1.0
Vanadium	mg/kg	16.2	2	20	17.76	190	78	65-135	11.9

* Background concentration much greater than spike amount; Recoveries may not be valid.

QUALITY CONTROL DATA

Work Order: A209764-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1769,3492 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A209764010 thru A209764013

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	16.0	27	11.3-162	19	272
Arsenic	mg/kg	49.1	42.0	86	32.4-65.8	66	134
Barium	mg/kg	111	116.0	105	79.6-142	72	128
Cadmium	mg/kg	67.9	94.0	138	49.7-95	73	140
Lead	mg/kg	82.8	97.0	117	57.5-108	69	130
Manganese	mg/kg	274	313.0	114	202-346	74	126
Thallium	mg/kg	39.3	53.0	135	23.7-57.2	60	146
Vanadium	mg/kg	96.1	97.0	101	62.4-130	65	135

QUALITY CONTROL DATA

Work Order: A209764-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1162
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209764001 thru A209764013

Laboratory Method Blank:

Parameter	Units	Result	RDL
Mercury	ug/g	ND	0.05

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/g	6.91	6.14	89	51-149

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209764010 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	ug/g	0.141	0.25	0.38	NA	96	NA	70-130	NA

Matrix spike duplicate was not analyzed for this batch.

NH DIVISION OF
Public Health Services
improving health, preventing disease, reducing costs for all

Friday, January 04, 2013

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Oct 25, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Barinelli Ph.D.
Organics Supervisor

Authorized Signature

Enclosures

REPORT OF LABORATORY ANALYSIS

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without the written consent of .

nelac

NH DIVISION OF
Public Health Services
Improving health, preventing disease, reducing costs for all

New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209764 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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SAMPLE SUMMARY

Workorder: A209764 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209764001	MHK_SS-101_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:05	10/25/2012	198404002
A209764002	MHK_SS-102_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:12	10/25/2012	198404002
A209764003	MHK_SS-103_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:33	10/25/2012	198404002
A209764004	MHK_SS-104_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:19	10/25/2012	198404002
A209764005	MHK_SS-105_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:37	10/25/2012	198404002
A209764006	MHK_SS-106_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:49	10/25/2012	198404002
A209764007	MHK_SS-108_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 14:57	10/25/2012	198404002
A209764008	MHK_SS-109_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 15:05	10/25/2012	198404002
A209764009	MHK_SS-112_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 15:15	10/25/2012	198404002
A209764010	MHK_SS-113_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 15:55	10/25/2012	198404002
A209764011	MHK_SS-114_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 15:47	10/25/2012	198404002
A209764012	MHK_SS-115_0-.5	MOHAWK, NASHUA	SOIL	10/23/2012 15:25	10/25/2012	198404002
A209764013	OW-102 DUP	MOHAWK, NASHUA	SOIL	10/23/2012 15:47	10/25/2012	198404002

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764001**
Sample ID: **MHK_SS-101_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	85.3	mg/kg Dry	1.84	2	11/29/2012 00:00	12/12/2012 11:28	0.05	
Arsenic	6.77	mg/kg Dry	0.3688	2	11/29/2012 00:00	12/12/2012 11:28	0.01	
Cadmium	0.9645	mg/kg Dry	0.1844	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	21.0	mg/kg Dry	0.9221	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	38.3	mg/kg Dry	0.1844	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	0.297	mg/kg Dry	0.184	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.184	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	7.27	mg/kg Dry	1.84	2	11/29/2012 00:00	12/12/2012 11:28		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.3515	mg/kg	0.0524	0.99	11/15/2012 08:00	11/21/2012 12:30		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764002**
Sample ID: **MHK_SS-102_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	509	mg/kg Dry	9.87	5	11/29/2012 00:00	12/12/2012 10:09	0.05	
Arsenic	5.38	mg/kg Dry	0.3949	2	11/29/2012 00:00	12/12/2012 11:58	0.01	
Cadmium	0.2132	mg/kg Dry	0.1974	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	33.8	mg/kg Dry	0.9872	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	35.4	mg/kg Dry	0.1974	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.197	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.197	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	11.0	mg/kg Dry	1.97	2	11/29/2012 00:00	12/12/2012 11:58		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0887	mg/kg	0.0531	0.9259 3	11/15/2012 08:00	11/21/2012 12:34		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764003**
Sample ID: **MHK_SS-103_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	263	mg/kg Dry	10.8	5	11/29/2012 00:00	12/12/2012 10:09	0.05	
Arsenic	6.75	mg/kg Dry	0.4331	2	11/29/2012 00:00	12/12/2012 12:07	0.01	
Cadmium	0.6410	mg/kg Dry	0.2166	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	26.9	mg/kg Dry	1.08	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	33.2	mg/kg Dry	0.2166	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.217	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.217	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	17.5	mg/kg Dry	2.17	2	11/29/2012 00:00	12/12/2012 12:07		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.3043	mg/kg	0.0590	0.9804	11/15/2012 08:00	11/21/2012 12:36		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764004**
Sample ID: **MHK_SS-104_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	280	mg/kg Dry	4.87	4	11/29/2012 00:00	12/12/2012 12:11	0.05	
Arsenic	9.73	mg/kg Dry	0.9735	4	11/29/2012 00:00	12/12/2012 12:11	0.01	
Cadmium	0.6473	mg/kg Dry	0.2434	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	31.2	mg/kg Dry	1.22	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	41.8	mg/kg Dry	0.2434	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.243	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.243	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	21.9	mg/kg Dry	4.87	4	11/29/2012 00:00	12/12/2012 12:11		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1848	mg/kg	0.0633	0.9259	11/15/2012 08:00	11/21/2012 12:38		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764005**
Sample ID: **MHK_SS-105_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	433	mg/kg Dry	4.86	4	11/29/2012 00:00	12/12/2012 12:16	0.05	
Arsenic	8.01	mg/kg Dry	0.9712	4	11/29/2012 00:00	12/12/2012 12:16	0.01	
Cadmium	0.6482	mg/kg Dry	0.2428	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	33.4	mg/kg Dry	1.21	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	37.4	mg/kg Dry	0.2428	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.243	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.243	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	21.5	mg/kg Dry	4.86	4	11/29/2012 00:00	12/12/2012 12:16		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2047	mg/kg	0.0613	0.877	11/15/2012 08:00	11/21/2012 12:40		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764006**
Sample ID: **MHK_SS-106_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	156	mg/kg Dry	1.98	2	11/29/2012 00:00	12/12/2012 12:20	0.05	
Arsenic	7.49	mg/kg Dry	0.3967	2	11/29/2012 00:00	12/12/2012 12:20	0.01	
Cadmium	0.8985	mg/kg Dry	0.1983	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	25.5	mg/kg Dry	0.9917	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	50.5	mg/kg Dry	0.1983	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.198	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.198	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	19.8	mg/kg Dry	1.98	2	11/29/2012 00:00	12/12/2012 12:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2610	mg/kg	0.0547	0.9901	11/15/2012 08:00	11/21/2012 12:43		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID:	**A209764007**	Matrix:	SOIL
Sample ID:	**MHK_SS-108_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	384	mg/kg Dry	4.64	4	11/29/2012 00:00	12/12/2012 12:25	0.05	
Arsenic	9.00	mg/kg Dry	0.9274	4	11/29/2012 00:00	12/12/2012 12:25	0.01	
Cadmium	0.3872	mg/kg Dry	0.2318	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	31.1	mg/kg Dry	1.16	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	16.7	mg/kg Dry	0.2318	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.232	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.232	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	15.4	mg/kg Dry	4.64	4	11/29/2012 00:00	12/12/2012 12:25		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1226	mg/kg	0.0657	0.933	11/15/2012 08:00	11/21/2012 12:46		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID:	**A209764008**	Matrix:	SOIL
Sample ID:	**MHK_SS-109_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.239	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Arsenic	7.44	mg/kg Dry	0.4771	2	11/29/2012 00:00	12/12/2012 12:33	0.01	
Barium	32.6	mg/kg Dry	1.19	250	11/29/2012 00:00	12/3/2012 10:46	2	
Cadmium	0.3745	mg/kg Dry	0.2386	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Lead	21.9	mg/kg Dry	0.2386	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Manganese	517	mg/kg Dry	11.9	5	11/29/2012 00:00	12/12/2012 10:09	0.05	
Thallium	ND	mg/kg Dry	0.239	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	20.3	mg/kg Dry	2.39	2	11/29/2012 00:00	12/12/2012 12:33		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1404	mg/kg	0.0476	0.6803	11/15/2012 08:00	11/21/2012 12:48		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764009**
Sample ID: **MHK_SS-112_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	555	mg/kg Dry	11.7	5	11/29/2012 00:00	12/12/2012 10:09	0.05	
Arsenic	6.16	mg/kg Dry	0.4698	2	11/29/2012 00:00	12/12/2012 13:00	0.01	
Cadmium	ND	mg/kg Dry	0.2349	250	11/29/2012 00:00	12/3/2012 10:46	0.005	
Barium	30.9	mg/kg Dry	1.17	250	11/29/2012 00:00	12/3/2012 10:46	2	
Lead	8.42	mg/kg Dry	0.2349	250	11/29/2012 00:00	12/3/2012 10:46	0.015	
Antimony	ND	mg/kg Dry	0.235	250	11/29/2012 00:00	12/3/2012 10:46	0.006	
Thallium	ND	mg/kg Dry	0.235	250	11/29/2012 00:00	12/3/2012 10:46	0.002	
Vanadium	16.2	mg/kg Dry	2.35	2	11/29/2012 00:00	12/12/2012 13:00		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0544	0.833	11/15/2012 08:00	11/21/2012 12:50		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764010**
Sample ID: **MHK_SS-113_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.274	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	10.8	mg/kg Dry	0.5490	2	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	39.8	mg/kg Dry	1.37	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2745	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	18.4	mg/kg Dry	0.2745	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	910	mg/kg Dry	13.7	5	12/4/2012 00:00	12/18/2012 13:25	0.05	
Thallium	ND	mg/kg Dry	0.274	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	18.8	mg/kg Dry	2.74	2	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1405	mg/kg	0.0563	0.813	11/15/2012 08:00	11/21/2012 12:57		

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ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID:	**A209764011**	Matrix:	SOIL
Sample ID:	**MHK_SS-114_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.217	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	19.1	mg/kg Dry	0.4346	2	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	14.8	mg/kg Dry	1.09	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2173	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	9.15	mg/kg Dry	0.2173	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	137	mg/kg Dry	2.17	2	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.217	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	9.78	mg/kg Dry	2.17	2	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0483	0.833	11/15/2012 08:00	11/21/2012 13:02		

REPORT OF LABORATORY ANALYSIS

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209764012**
Sample ID: **MHK_SS-115_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	609	mg/kg Dry	11.7	5	12/4/2012 00:00	12/18/2012 13:38	0.05	
Arsenic	10.4	mg/kg Dry	0.4688	2	12/4/2012 00:00	12/18/2012 10:14	0.01	
Cadmium	ND	mg/kg Dry	0.2344	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Barium	31.6	mg/kg Dry	1.17	250	12/4/2012 00:00	12/18/2012 10:14	2	
Lead	33.6	mg/kg Dry	0.2344	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Antimony	ND	mg/kg Dry	0.234	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Thallium	ND	mg/kg Dry	0.234	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	27.0	mg/kg Dry	2.34	2	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	ug/L	60.0	0.9901	11/15/2012 08:00	11/21/2012 13:04		

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209764 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID:	**A209764013**	Matrix:	SOIL
Sample ID:	**OW-102 DUP**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	MATTHEW T STEIN

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.239	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	20.9	mg/kg Dry	0.9568	4	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	14.5	mg/kg Dry	1.20	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2392	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	8.68	mg/kg Dry	0.2392	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	137	mg/kg Dry	4.78	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.239	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	11.1	mg/kg Dry	4.78	4	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0514	0.885	11/15/2012 08:00	11/21/2012 13:07		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92242
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

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Workorder A209764
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209764001	MHK_SS-101_	10/23/2012 14:05	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764001	MHK_SS-101_	10/23/2012 14:05	DRY WEIGHT	$20.00
A209764002	MHK_SS-102_	10/23/2012 14:12	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764002	MHK_SS-102_	10/23/2012 14:12	DRY WEIGHT	$20.00
A209764003	MHK_SS-103_	10/23/2012 14:33	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	MANGANESE,200.8,SO,ICP/MS	$15.00

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Workorder A209764
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209764003	MHK_SS-103_	10/23/2012 14:33	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764003	MHK_SS-103_	10/23/2012 14:33	DRY WEIGHT	$20.00
A209764004	MHK_SS-104_	10/23/2012 14:19	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764004	MHK_SS-104_	10/23/2012 14:19	DRY WEIGHT	$20.00
A209764005	MHK_SS-105_	10/23/2012 14:37	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764005	MHK_SS-105_	10/23/2012 14:37	DRY WEIGHT	$20.00

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Workorder A209764
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209764006	MHK_SS-106_	10/23/2012 14:49	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764006	MHK_SS-106_	10/23/2012 14:49	DRY WEIGHT	$20.00
A209764007	MHK_SS-108_	10/23/2012 14:57	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764007	MHK_SS-108_	10/23/2012 14:57	DRY WEIGHT	$20.00
A209764008	MHK_SS-109_	10/23/2012 15:05	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	MANGANESE,200.8,SO,ICP/MS	$15.00

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Workorder A209764
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209764008	MHK_SS-109_	10/23/2012 15:05	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764008	MHK_SS-109_	10/23/2012 15:05	DRY WEIGHT	$20.00
A209764009	MHK_SS-112_	10/23/2012 15:15	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764009	MHK_SS-112_	10/23/2012 15:15	DRY WEIGHT	$20.00
A209764010	MHK_SS-113_	10/23/2012 15:55	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764010	MHK_SS-113_	10/23/2012 15:55	DRY WEIGHT	$20.00

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Workorder A209764
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209764011	MHK_SS-114_	10/23/2012 15:47	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764011	MHK_SS-114_	10/23/2012 15:47	DRY WEIGHT	$20.00
A209764012	MHK_SS-115_	10/23/2012 15:25	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	MANGANESE,200.8,SO,ICP/MS	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764012	MHK_SS-115_	10/23/2012 15:25	DRY WEIGHT	$20.00
A209764013	OW-102 DUP	10/23/2012 15:47	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209764013	OW-102 DUP	10/23/2012 15:47	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764013	OW-102 DUP	10/23/2012 15:47	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209764013	OW-102 DUP	10/23/2012 15:47	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209764013	OW-102 DUP	10/23/2012 15:47	MANGANESE,200.8,SO,ICP/MS	$15.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92242
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

CC

Workorder A209764
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209764013	**OW-102 DUP**	10/23/2012 15:47	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209764013	**OW-102 DUP**	10/23/2012 15:47	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209764013	**OW-102 DUP**	10/23/2012 15:47	THALLIUM,200.8,SO,ICP/MS	$15.00
A209764013	**OW-102 DUP**	10/23/2012 15:47	VANADIUM,200.8,SO,ICP/MS	$15.00
A209764013	**OW-102 DUP**	10/23/2012 15:47	DRY WEIGHT	$20.00
			Invoice Total	$2,015.00

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$2,015.00

Client: 04-0007207
Invoice Number: 92242

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207
Description: **Mohawk Tannery Site**

One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002**
Town: **Nashua, NH**

Temp. °C 3.7

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-103
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-118_0-.5	10/24/12 14:58	1	S	X								A209766001 10/24/12 14:58 04-0007207	
MHK_SS-119_0-.5	10/24/12 14:15	1	S	X									A209766002 10/24/12 14:15 04-0007207
MHK_SS-120_0-.5	10/24/12 15:07	1	S	X								A209766003 10/24/12 15:07 04-0007207	
MHK_SS-121_0-.5	10/24/12 15:35	1	S	X									A209766004 10/24/12 15:35 04-0007207
MHK_SS-123_0-.5	10/24/12 15:26	1	S	X								A209766005 10/24/12 15:26 04-0007207	
MHK_SS-124_0-.5	10/24/12 14:32	1	S	X									A209766006 10/24/12 14:32 04-0007207
MHK_SS-125_0-.5	10/24/12 14:05	1	S	X								A209766007 10/24/12 14:05 04-0007207	
MHK_SS-126_0-.5	10/24/12 13:46	1	S	X									A209766008 10/24/12 13:46 04-0007207
MHK_SS-127_0-.5	10/24/12 13:12	1	S	X								A209766009 10/24/12 13:12 04-0007207	
MHK_SS-128_0-.5	10/24/12 13:27	1	S	X									A209766010 10/24/12 13:27 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By Kelly M Dubois — Date and Time 10/25/12 14:25 — Received By —

Relinquished By — — Date and Time — — Received By —

Relinquished By — — Date and Time 10/25/12 14:25 — **Received For Laboratory By**

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Section No : 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Page 1 of 2

Data Reviewed By — Date 1-14-13

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 3.7

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-103
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-129_0-.5	10/24/12 13:02	1	S	X								A209766011 10/24/12 13:02 04-0007207	
MHK_SS-130_0-.5	10/24/12 12:43	1	S	X									A209766012 10/24/12 12:43 04-0007207
OW-103	10/24/12 13:02	1	S	X								A209766013 10/24/12 13:02 04-0007207	

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/25/12 14:25 Received By —

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By — Date and Time — Received By —

Relinquished By — Date and Time 10/25/12 14:25 **Received For Laboratory By** [signature]

Section No.: 22 0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By [signature] Date 1-14-13

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)

NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name 04-0007207
Temperature of the sample or temperature blank	✓			Temperature 3.7 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials_____
Additional Comments:				
If present, was the Custody of Seal intact?	✓			
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: _____ Date/Time Name of Staff Releasing Sample: _____

Rev 4
5-15-08

Completed By LSN Date 10-25-12

QC Results for Work Order A209766 - Soil Metals

Relative Percent Difference (RPD)							
Sample and Blind Field Duplicate							
RPD = 50% for Soil Samples							
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Lead**	**Manganese**	**Vanadium**	**Mercury**
		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
A209766011	MHK_SS-129_0-.5	7.63	27.3	21.3	63.6	50.6	0.0743
A209766013	OW-103	7.55	27.6	21.8	67.4	47	0.0589
RPD %		**-1**	**1**	**2**	**6**	**-7**	**-23**
Equipment Blank Results							
No Equipment Blank							

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209766
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	January 11, 2013
Samples:	
Metals:	13 soil samples
Coments:	SDG MT2-102

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

All criteria were met.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The background concentration MHK_SS-124_0-.5 (A209766006) for manganese was much greater than the spike amount; matrix spike and matrix spike recoveries may not be valid.

Matrix Spike/Matrix Spike Duplicate recoveries for barium and lead were above the upper control limit.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

All criteria were met.

QUALITY CONTROL DATA

Work Order: A209766-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1769,3492 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A209766010 thru A209766013

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	16.0	27	11.3-162	19	272
Arsenic	mg/kg	49.1	42.0	86	32.4-65.8	66	134
Barium	mg/kg	111	116.0	105	79.6-142	72	128
Cadmium	mg/kg	67.9	94.0	138	49.7-95	73	140
Lead	mg/kg	82.8	97.0	117	57.5-108	69	130
Manganese	mg/kg	274	313.0	114	202-346	74	126
Thallium	mg/kg	39.3	53.0	135	23.7-57.2	60	146
Vanadium	mg/kg	96.1	97.0	101	62.4-130	65	135

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209766006 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/kg	ND	2	0.7	0.680	35	34	19-272	2.9
Arsenic	mg/kg	7.24	2	8.92	8.9	84	83	66-134	0.2
Barium	mg/kg	31.7	2	38.22	34.68	326	149	72-128	9.7
Cadmium	mg/kg	ND	2	2.1	2.06	105	103	73-140	1.9
Lead	mg/kg	48.1	2	53.08	52.24	249	207	69-130	1.6
Manganese *	mg/kg	220	2	Off Scale	Off Scale			74-126	NA
Thallium	mg/kg	ND	2	2.06	2.02	103	101	60-146	2.0
Vanadium	mg/kg	7.17	2	9.15	9.13	99	98	65-135	0.2

QUALITY CONTROL DATA

Work Order: A209766-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1162
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209766001 thru A209766013

Laboratory Method Blank:

Parameter	Units	Result	RDL
Mercury	ug/g	ND	0.05

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/g	6.91	6.63	96	51-149

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209766007 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	ug/g	ND	0.25	0.24	0.26	96	104	70-130	8

NH DIVISION OF
Public Health Services
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Friday, January 04, 2013

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Oct 25, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Barinelli Ph.D.
Organics Supervisor

Authorized Signature

Enclosures

REPORT OF LABORATORY ANALYSIS

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209766 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209766 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209766001	MHK_SS-118_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 14:58	10/25/2012	198404002
A209766002	MHK_SS-119_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 14:15	10/25/2012	198404002
A209766003	MHK_SS-120_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 15:07	10/25/2012	198404002
A209766004	MHK_SS-121_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 15:35	10/25/2012	198404002
A209766005	MHK_SS-123_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 15:26	10/25/2012	198404002
A209766006	MHK_SS-124_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 14:32	10/25/2012	198404002
A209766007	MHK_SS-125_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 14:05	10/25/2012	198404002
A209766008	MHK_SS-126_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 13:46	10/25/2012	198404002
A209766009	MHK_SS-127_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 13:12	10/25/2012	198404002
A209766010	MHK_SS-128_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 13:27	10/25/2012	198404002
A209766011	MHK_SS-129_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 13:02	10/25/2012	198404002
A209766012	MHK_SS-130_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 12:43	10/25/2012	198404002
A209766013	OW-103 DUP	MOHAWK, NASHUA	SOIL	10/24/2012 13:02	10/25/2012	198404002

REPORT OF LABORATORY ANALYSIS

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Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766001**
Sample ID: **MHK_SS-118_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.247	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	8.49	mg/kg Dry	0.4947	2	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	32.2	mg/kg Dry	1.24	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2473	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	23.4	mg/kg Dry	0.2473	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	756	mg/kg Dry	12.4	5	12/4/2012 00:00	12/18/2012 13:52	0.05	
Thallium	ND	mg/kg Dry	0.247	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	17.6	mg/kg Dry	2.47	2	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1268	mg/kg	0.0490	0.8197	11/15/2012 08:00	11/21/2012 13:09		

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29 Hazen Dr.. Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766002**
Sample ID: **MHK_SS-119_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.388	mg/kg Dry	0.310	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	10.1	mg/kg Dry	0.3103	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	52.7	mg/kg Dry	1.55	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	1.09	mg/kg Dry	0.3103	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	51.1	mg/kg Dry	0.3103	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	380	mg/kg Dry	6.21	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.310	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	10.4	mg/kg Dry	1.55	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2678	mg/kg	0.0799	0.8197	11/15/2012 08:00	11/21/2012 13:11		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766003**
Sample ID: **MHK_SS-120_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.242	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	7.12	mg/kg Dry	0.2424	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	22.1	mg/kg Dry	1.21	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	0.2666	mg/kg Dry	0.2424	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	41.7	mg/kg Dry	0.2424	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	326	mg/kg Dry	4.85	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.242	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	19.0	mg/kg Dry	1.21	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2846	mg/kg	0.0635	1.03	11/15/2012 08:00	11/21/2012 13:13		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID:	**A209766004**	Matrix:	SOIL
Sample ID:	**MHK_SS-121_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.482	mg/kg Dry	0.239	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	10.9	mg/kg Dry	0.9548	4	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	25.2	mg/kg Dry	1.19	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	1.25	mg/kg Dry	0.2387	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	56.6	mg/kg Dry	0.2387	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	141	mg/kg Dry	4.77	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.239	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	14.1	mg/kg Dry	4.77	4	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.6626	mg/kg	0.1045	1.69	11/15/2012 08:00	11/21/2012 14:45		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID:	**A209766005**	Matrix:	SOIL
Sample ID:	**MHK_SS-123_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.317	mg/kg Dry	0.257	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	9.59	mg/kg Dry	0.2574	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	26.1	mg/kg Dry	1.29	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	0.3578	mg/kg Dry	0.2574	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	71.3	mg/kg Dry	0.2574	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	110	mg/kg Dry	1.29	250	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.257	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	28.9	mg/kg Dry	1.29	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.3691	mg/kg	0.0559	0.8621	11/15/2012 08:00	11/21/2012 13:18		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766006**
Sample ID: **MHK_SS-124_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.235	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	7.24	mg/kg Dry	0.2354	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	31.7	mg/kg Dry	1.18	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2354	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	48.1	mg/kg Dry	0.2354	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	220	mg/kg Dry	4.71	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.235	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	7.17	mg/kg Dry	1.18	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2559	mg/kg	0.0511	0.8403 4	11/15/2012 08:00	11/21/2012 13:25		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766007**
Sample ID: **MHK_SS-125_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.226	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	10.3	mg/kg Dry	0.4520	2	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	29.0	mg/kg Dry	1.13	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2260	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	12.6	mg/kg Dry	0.2260	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	129	mg/kg Dry	2.26	2	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.226	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	24.3	mg/kg Dry	2.26	2	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0585	1	11/15/2012 08:00	11/21/2012 13:27		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766008**
Sample ID: **MHK_SS-126_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.221	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	6.55	mg/kg Dry	0.2205	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	25.8	mg/kg Dry	1.10	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2205	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	43.2	mg/kg Dry	0.2205	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	299	mg/kg Dry	4.41	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.221	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	38.1	mg/kg Dry	1.10	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0664	mg/kg	0.0489	0.8547	11/15/2012 08:00	11/21/2012 13:36		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766009**
Sample ID: **MHK_SS-127_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	110	mg/kg Dry	2.12	2	12/4/2012 00:00	12/18/2012 10:14	0.05	
Arsenic	9.15	mg/kg Dry	0.4246	2	12/4/2012 00:00	12/18/2012 10:14	0.01	
Cadmium	ND	mg/kg Dry	0.2123	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Barium	12.0	mg/kg Dry	1.06	250	12/4/2012 00:00	12/18/2012 10:14	2	
Lead	7.40	mg/kg Dry	0.2123	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Antimony	31.8	mg/kg Dry	0.212	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Thallium	ND	mg/kg Dry	0.212	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	16.3	mg/kg Dry	2.12	2	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.3403	mg/kg	0.0387	0.7246	11/15/2012 08:00	11/21/2012 13:39		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766010**
Sample ID: **MHK_SS-128_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.227	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	7.40	mg/kg Dry	0.2273	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	19.5	mg/kg Dry	1.14	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2273	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	23.5	mg/kg Dry	0.2273	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	61.7	mg/kg Dry	1.14	250	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.227	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	39.5	mg/kg Dry	1.14	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.7386	mg/kg	0.1084	1.9	11/15/2012 08:00	11/21/2012 14:47		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766011**
Sample ID: **MHK_SS-129_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.230	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	7.63	mg/kg Dry	0.2301	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	27.3	mg/kg Dry	1.15	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2301	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	21.3	mg/kg Dry	0.2301	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	63.6	mg/kg Dry	1.15	250	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.230	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	50.6	mg/kg Dry	1.15	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0743	mg/kg	0.0513	0.893	11/15/2012 08:00	11/21/2012 13:43		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766012**
Sample ID: **MHK_SS-130_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.233	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	6.21	mg/kg Dry	0.2329	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	20.2	mg/kg Dry	1.16	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2329	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	20.9	mg/kg Dry	0.2329	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	73.2	mg/kg Dry	1.16	250	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.233	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	23.1	mg/kg Dry	1.16	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0647	mg/kg	0.0508	0.9	11/15/2012 08:00	11/21/2012 13:46		

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ANALYTICAL RESULTS

Workorder: A209766 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209766013**
Sample ID: **OW-103 DUP**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.224	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	7.55	mg/kg Dry	0.2244	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	27.6	mg/kg Dry	1.12	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2244	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	21.8	mg/kg Dry	0.2244	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	67.4	mg/kg Dry	1.12	250	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.224	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	47.0	mg/kg Dry	1.12	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0589	mg/kg	0.0514	0.893	11/15/2012 08:00	11/21/2012 13:53		

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PHONE (603) 271-3445
FAX (603) 271-2997

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Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92243
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

CC

Workorder A209766
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209766001	MHK_SS-118_	10/24/2012 14:58	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766001	MHK_SS-118_	10/24/2012 14:58	DRY WEIGHT	$20.00
A209766002	MHK_SS-119_	10/24/2012 14:15	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766002	MHK_SS-119_	10/24/2012 14:15	DRY WEIGHT	$20.00
A209766003	MHK_SS-120_	10/24/2012 15:07	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	MANGANESE,200.8,SO,ICP/MS	$15.00

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Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92243
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

CC

Workorder A209766
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209766003	MHK_SS-120_	10/24/2012 15:07	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766003	MHK_SS-120_	10/24/2012 15:07	DRY WEIGHT	$20.00
A209766004	MHK_SS-121_	10/24/2012 15:35	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766004	MHK_SS-121_	10/24/2012 15:35	DRY WEIGHT	$20.00
A209766005	MHK_SS-123_	10/24/2012 15:26	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766005	MHK_SS-123_	10/24/2012 15:26	DRY WEIGHT	$20.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
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Account ID 04-0007207
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Workorder A209766
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209766006	MHK_SS-124_	10/24/2012 14:32	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766006	MHK_SS-124_	10/24/2012 14:32	DRY WEIGHT	$20.00
A209766007	MHK_SS-125_	10/24/2012 14:05	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766007	MHK_SS-125_	10/24/2012 14:05	DRY WEIGHT	$20.00
A209766008	MHK_SS-126_	10/24/2012 13:46	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	MANGANESE,200.8,SO,ICP/MS	$15.00

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Invoice Number 92243
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

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Workorder A209766
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209766008	MHK_SS-126_	10/24/2012 13:46	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766008	MHK_SS-126_	10/24/2012 13:46	DRY WEIGHT	$20.00
A209766009	MHK_SS-127_	10/24/2012 13:12	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766009	MHK_SS-127_	10/24/2012 13:12	DRY WEIGHT	$20.00
A209766010	MHK_SS-128_	10/24/2012 13:27	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766010	MHK_SS-128_	10/24/2012 13:27	DRY WEIGHT	$20.00

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Workorder A209766
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209766011	MHK_SS-129_	10/24/2012 13:02	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766011	MHK_SS-129_	10/24/2012 13:02	DRY WEIGHT	$20.00
A209766012	MHK_SS-130_	10/24/2012 12:43	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	MANGANESE,200.8,SO,ICP/MS	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766012	MHK_SS-130_	10/24/2012 12:43	DRY WEIGHT	$20.00
A209766013	OW-103 DUP	10/24/2012 13:02	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209766013	OW-103 DUP	10/24/2012 13:02	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766013	OW-103 DUP	10/24/2012 13:02	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209766013	OW-103 DUP	10/24/2012 13:02	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209766013	OW-103 DUP	10/24/2012 13:02	MANGANESE,200.8,SO,ICP/MS	$15.00

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Account ID 04-0007207
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Workorder A209766
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209766013	**OW-103 DUP**	10/24/2012 13:02	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209766013	**OW-103 DUP**	10/24/2012 13:02	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209766013	**OW-103 DUP**	10/24/2012 13:02	THALLIUM,200.8,SO,ICP/MS	$15.00
A209766013	**OW-103 DUP**	10/24/2012 13:02	VANADIUM,200.8,SO,ICP/MS	$15.00
A209766013	**OW-103 DUP**	10/24/2012 13:02	DRY WEIGHT	$20.00
			Invoice Total	$2,015.00

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$2,015.00

Client: 04-0007207
Invoice Number: 92243

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 3.7

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-104
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)							Comments	Lab ID # (For Lab Use Only)
MHK_SS-131_0-.5	10/24/12 11:22	1	S	X							A209776001 10/24/12 11:22 04-0007207	
MHK_SS-132_0-.5	10/24/12 11:11	1	S	X								A209776002 10/24/12 11:11 04-0007207
MHK_SS-133_0-.5	10/24/12 10:57	1	S	X							A209776003 10/24/12 10:57 04-0007207	
MHK_SS-134_0-.5	10/24/12 10:40	1	S	X								A209776004 10/24/12 10:40 04-0007207
MHK_SS-135_0-.5	10/24/12 10:30	1	S	X							A209776005 10/24/12 10:30 04-0007207	
MHK_SS-136_0-.5	10/24/12 10:21	1	S	X								A209776006 10/24/12 10:21 04-0007207
MHK_SS-142_0-.5	10/24/12 10:06	1	S	X							A209776007 10/24/12 10:06 04-0007207	
MHK_SS-144_0-.5	10/24/12 9:46	1	S	X								A209776008 10/24/12 09:46 04-0007207
MHK_SS-146_0-.5	10/24/12 9:32	1	S	X							A209776009 10/24/12 09:32 04-0007207	
MHK_SS-148_0-.5	10/24/12 9:15	1	S	X								A209776010 10/24/12 09:15 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/25/12 14:25 Received By —

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By — Date and Time — Received By —

Relinquished By — Date and Time 10/25/12 14:25 **Received For Laboratory By** [signature]

Section No : 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Page 1 of 2 Data Reviewed By [signature] Date 1-14-13

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207
Description: **Mohawk Tannery Site**

One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002**
Town: **Nashua, NH**

Temp. °C 3.7

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-104
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SS-150_0-.5	10/24/12 9:02	1	S	X								A209776011 10/24/12 09:02 04-0007207	
OW-104	10/24/12 10:57	1	S	X									A209776012 10/24/12 10:57 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By Kelly M Dubois Date and Time 10/25/12 14:25 Received By —

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By — Date and Time — Received By —

Relinquished By — Date and Time 10/25/12 14:25 **Received For Laboratory By**

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By Date 1-14-13

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)
NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name 04-0007207
Temperature of the sample or temperature blank	✓			Temperature 3.7 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials_____
Additional Comments:				
If present, was the Custody of Seal intact?	✓			
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: _____ Date/Time Name of Staff Releasing Sample: _____

Rev 4
5-15-08

Completed By LSN Date 10-25-12

QC Results for Work Order A209776 - Soil Metals

Relative Percent Difference (RPD)							
Sample and Blind Field Duplicate							
RPD = 50% for Soil Samples							
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Lead**	**Manganese**	**Vanadium**	**Mercury**
		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
A209776003	MHK_SS-133_0-.5	5.86	13.7	30.5	64.0	28.3	0.0524
A209766013	OW-104	6.33	15.0	37.4	68.1	31.2	0.0556
RPD %		**8**	**9**	**20**	**6**	**10**	6
Equipment Blank Results							
No Equipment Blank							

The mercury duplicate (OW-104) was ND (not detected) The RDL was 0.0556, which makes the RPD 6, within the 50% range.

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO: A209776
Laboratory: NH PHL Water Analysis Lab
Site: Mohawk Tannery, Nashua, NH
Date: January 11, 2013
Samples:

Metals: 12 soil samples

Comments: SDG MT2-104

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

In sample MHK_SS-136_0-.5 (A209776006) vanadium resulted in a negative concentration. Upon dilution the result was still negative. The vanadium result should be considered biased low.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

QUALITY CONTROL DATA

Work Order: A209776-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1162
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209776001 thru A209766012

Laboratory Method Blank:

Parameter	Units	Result	RDL
Mercury	ug/g	ND	0.05

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/g	6.91	6.63	96	51-149

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209776012 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	ug/g	ND	0.25	0.26	0.27	104	108	70-130	3.77358

QUALITY CONTROL DATA

Work Order: A209776-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1769,3492 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A209776001 thru A209766012

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	15.0	25	11.3-162	19	272
Arsenic	mg/kg	49.1	40.0	81	32.4-65.8	66	134
Barium	mg/kg	111	119.0	107	79.6-142	72	128
Cadmium	mg/kg	67.9	91.0	134	49.7-95	73	140
Lead	mg/kg	82.8	95.0	115	57.5-108	69	130
Manganese	mg/kg	274	297.0	108	202-346	74	126
Thallium	mg/kg	39.3	50.0	127	23.7-57.2	60	146
Vanadium	mg/kg	96.1	97.0	101	62.4-130	65	135

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209776012 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/kg	ND	2	0.66	0.600	33	30	19-272	9.5
Arsenic	mg/kg	6.33	2	7.85	7.83	76	75	66-134	0.3
Barium	mg/kg	15	2	15.68	15.14	34	7	72-128	3.5
Cadmium	mg/kg	ND	2	2.02	1.98	101	99	73-140	2.0
Lead	mg/kg	37.4	2	45.28	32.06	394	-267	69-130	34.2
Manganese	mg/kg	68.1	2	59.82	61.9	-414	-310	74-126	NA
Thallium	mg/kg	ND	2	2	1.22	100	61	60-146	48.4
Vanadium	mg/kg	31.2	2	30.76	31.2	-22	0	65-135	1.4

NH DIVISION OF
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Monday, February 04, 2013

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Oct 25, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Authorized Signature Revised 2/5/13

Enclosures

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209776 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

All results for pH and residual chlorine samples analyzed more than 15 minutes after time of collection shall be considered QUALIFIED.

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Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209776 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209776001	MHK_SS-131_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 11:22	10/25/2012	198404002
A209776002	MHK_SS-132_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 11:11	10/25/2012	198404002
A209776003	MHK_SS-133_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 10:57	10/25/2012	198404002
A209776004	MHK_SS-134_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 10:40	10/25/2012	198404002
A209776005	MHK_SS-135_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 10:30	10/25/2012	198404002
A209776006	MHK_SS-136_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 10:21	10/25/2012	198404002
A209776007	MHK_SS-142_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 10:06	10/25/2012	198404002
A209776008	MHK_SS-144_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 09:46	10/25/2012	198404002
A209776009	MHK_SS-146_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 09:32	10/25/2012	198404002
A209776010	MHK_SS-148_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 09:15	10/25/2012	198404002
A209776011	MHK_SS-150_0-.5	MOHAWK, NASHUA	SOIL	10/24/2012 09:02	10/25/2012	198404002
A209776012	OW-104 DUP	MOHAWK, NASHUA	SOIL	10/24/2012 10:57	10/25/2012	198404002

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ANALYTICAL REPORT COMMENTS AND QUALIFIERS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Parameter Footnotes

M Results may be biased low due to apparent matrix interference.

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209776001**
Sample ID: **MHK_SS-131_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.207	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	9.86	mg/kg Dry	0.8289	4	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	32.9	mg/kg Dry	1.04	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2072	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	20.2	mg/kg Dry	0.2072	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	222	mg/kg Dry	4.14	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.207	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	10.9	mg/kg Dry	4.14	4	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1187	mg/kg	0.0573	1.02	11/15/2012 08:00	11/21/2012 13:56		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209776002**
Sample ID: **MHK_SS-132_0-.5**
Description: MOHAWK, NASHUA

Matrix: SOIL
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	215	mg/kg Dry	4.60	4	12/4/2012 00:00	12/18/2012 10:14	0.05	
Arsenic	3.30	mg/kg Dry	0.2301	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Cadmium	ND	mg/kg Dry	0.2301	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Barium	14.2	mg/kg Dry	1.15	250	12/4/2012 00:00	12/18/2012 10:14	2	
Lead	13.5	mg/kg Dry	0.2301	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Antimony	ND	mg/kg Dry	0.230	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Thallium	ND	mg/kg Dry	0.230	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	22.1	mg/kg Dry	1.15	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0576	1.03	11/15/2012 08:00	11/21/2012 13:58		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776003**	Matrix:	SOIL
Sample ID:	**MHK_SS-133_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.228	250	12/4/2012 00:00	12/18/2012 10:14	0.006	
Arsenic	5.86	mg/kg Dry	0.2280	250	12/4/2012 00:00	12/18/2012 10:14	0.01	
Barium	13.7	mg/kg Dry	1.14	250	12/4/2012 00:00	12/18/2012 10:14	2	
Cadmium	ND	mg/kg Dry	0.2280	250	12/4/2012 00:00	12/18/2012 10:14	0.005	
Lead	30.5	mg/kg Dry	0.2280	250	12/4/2012 00:00	12/18/2012 10:14	0.015	
Manganese	64.0	mg/kg Dry	1.14	250	12/4/2012 00:00	12/18/2012 10:14	0.05	
Thallium	ND	mg/kg Dry	0.228	250	12/4/2012 00:00	12/18/2012 10:14	0.002	
Vanadium	28.3	mg/kg Dry	1.14	250	12/4/2012 00:00	12/18/2012 10:14		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0524	mg/kg	0.0499	0.84	11/15/2012 08:00	11/21/2012 14:00		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776004**	Matrix:	SOIL
Sample ID:	**MHK_SS-134_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	266	mg/kg Dry	5.04	4	12/6/2012 00:00	12/19/2012 10:20	0.05	
Arsenic	7.15	mg/kg Dry	0.2522	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Cadmium	ND	mg/kg Dry	0.2522	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Barium	46.7	mg/kg Dry	1.26	250	12/6/2012 00:00	12/19/2012 10:20	2	
Lead	30.7	mg/kg Dry	0.2522	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Antimony	ND	mg/kg Dry	0.252	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Thallium	ND	mg/kg Dry	0.252	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	17.6	mg/kg Dry	1.26	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1899	mg/kg	0.0535	0.8696	11/15/2012 08:00	11/21/2012 14:02		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776005**	Matrix:	SOIL
Sample ID:	**MHK_SS-135_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.241	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	11.5	mg/kg Dry	0.2412	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	29.5	mg/kg Dry	1.21	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	0.2557	mg/kg Dry	0.2412	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	16.4	mg/kg Dry	0.2412	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	203	mg/kg Dry	2.41	2	12/6/2012 00:00	12/19/2012 10:20	0.05	
Thallium	ND	mg/kg Dry	0.241	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	6.28	mg/kg Dry	1.21	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.4755	mg/kg	0.0956	1.639	11/15/2012 08:00	11/21/2012 14:56		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776006**	Matrix:	SOIL
Sample ID:	**MHK_SS-136_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.222	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	5.01	mg/kg Dry	0.2219	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	13.7	mg/kg Dry	1.11	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	ND	mg/kg Dry	0.2219	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	7.04	mg/kg Dry	0.2219	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	128	mg/kg Dry	2.22	2	12/6/2012 00:00	12/19/2012 10:20	0.05	
Thallium	ND	mg/kg Dry	0.222	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	ND	mg/kg Dry	2.22	2	12/6/2012 00:00	12/19/2012 10:20		M
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0657	mg/kg	0.0468	0.826	11/15/2012 08:00	11/21/2012 14:10		

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776007**	Matrix:	SOIL
Sample ID:	**MHK_SS-142_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.225	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	5.93	mg/kg Dry	0.2255	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	21.4	mg/kg Dry	1.13	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	0.6583	mg/kg Dry	0.2255	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	20.9	mg/kg Dry	0.2255	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	177	mg/kg Dry	2.25	2	12/6/2012 00:00	12/19/2012 10:20	0.05	
Thallium	ND	mg/kg Dry	0.225	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	6.24	mg/kg Dry	1.13	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2121	mg/kg	0.0514	0.909	11/15/2012 08:00	11/21/2012 14:12		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776008**	Matrix:	SOIL
Sample ID:	**MHK_SS-144_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.740	mg/kg Dry	0.258	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	15.6	mg/kg Dry	0.2578	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	70.2	mg/kg Dry	1.29	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	4.84	mg/kg Dry	0.2578	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	65.9	mg/kg Dry	0.2578	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	936	mg/kg Dry	12.9	10	12/6/2012 00:00	12/19/2012 10:20	0.05	
Thallium	ND	mg/kg Dry	0.258	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	9.78	mg/kg Dry	1.29	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0928	mg/kg	0.0628	0.952	11/15/2012 08:00	11/21/2012 14:15		

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NH DIVISION OF
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New Hampshire Public Health Laboratories
Department of Health and Human Services
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Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776009**	Matrix:	SOIL
Sample ID:	**MHK_SS-146_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.707	mg/kg Dry	0.262	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	15.2	mg/kg Dry	0.5234	2	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	54.3	mg/kg Dry	1.31	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	3.33	mg/kg Dry	0.2617	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	57.2	mg/kg Dry	0.2617	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	826	mg/kg Dry	13.1	5	12/6/2012 00:00	12/19/2012 12:41	0.05	
Thallium	ND	mg/kg Dry	0.262	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	12.4	mg/kg Dry	2.62	2	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0607	0.9434	11/15/2012 08:00	11/21/2012 14:17		

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Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776010**	Matrix:	SOIL
Sample ID:	**MHK_SS-148_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.826	mg/kg Dry	0.253	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	9.58	mg/kg Dry	0.2532	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	36.5	mg/kg Dry	1.27	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	2.23	mg/kg Dry	0.2532	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	54.5	mg/kg Dry	0.2532	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	290	mg/kg Dry	5.06	4	12/6/2012 00:00	12/19/2012 10:20	0.05	
Thallium	ND	mg/kg Dry	0.253	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	8.58	mg/kg Dry	1.27	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0560	mg/kg	0.0506	0.813	11/15/2012 08:00	11/21/2012 14:19		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776011**	Matrix:	SOIL
Sample ID:	**MHK_SS-150_0-.5**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	145	mg/kg Dry	2.55	2	12/6/2012 00:00	12/19/2012 10:20	0.05	
Arsenic	7.77	mg/kg Dry	0.2550	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Cadmium	1.24	mg/kg Dry	0.2550	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Barium	25.1	mg/kg Dry	1.28	250	12/6/2012 00:00	12/19/2012 10:20	2	
Lead	29.1	mg/kg Dry	0.2550	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Antimony	0.423	mg/kg Dry	0.255	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Thallium	ND	mg/kg Dry	0.255	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	8.47	mg/kg Dry	1.28	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2153	mg/kg	0.0476	0.735	11/15/2012 08:00	11/21/2012 14:21		

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ANALYTICAL RESULTS

Workorder: A209776 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209776012**	Matrix:	SOIL
Sample ID:	**OW-104 DUP**	Sample Type:	SAMPLE
Description:	MOHAWK, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.226	250	12/6/2012 00:00	12/19/2012 10:20	0.006	
Arsenic	6.33	mg/kg Dry	0.2263	250	12/6/2012 00:00	12/19/2012 10:20	0.01	
Barium	15.0	mg/kg Dry	1.13	250	12/6/2012 00:00	12/19/2012 10:20	2	
Cadmium	ND	mg/kg Dry	0.2263	250	12/6/2012 00:00	12/19/2012 10:20	0.005	
Lead	37.4	mg/kg Dry	0.2263	250	12/6/2012 00:00	12/19/2012 10:20	0.015	
Manganese	68.1	mg/kg Dry	1.13	250	12/6/2012 00:00	12/19/2012 10:20	0.05	
Thallium	ND	mg/kg Dry	0.226	250	12/6/2012 00:00	12/19/2012 10:20	0.002	
Vanadium	31.2	mg/kg Dry	1.13	250	12/6/2012 00:00	12/19/2012 10:20		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg	0.0556	0.952	11/15/2012 08:00	11/21/2012 14:24		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92244
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

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Workorder A209776
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209776001	MHK_SS-131_	10/24/2012 11:22	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776001	MHK_SS-131_	10/24/2012 11:22	DRY WEIGHT	$20.00
A209776002	MHK_SS-132_	10/24/2012 11:11	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776002	MHK_SS-132_	10/24/2012 11:11	DRY WEIGHT	$20.00
A209776003	MHK_SS-133_	10/24/2012 10:57	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	MANGANESE,200.8,SO,ICP/MS	$15.00

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Invoice Number 92244
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
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Workorder A209776
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209776003	MHK_SS-133_	10/24/2012 10:57	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776003	MHK_SS-133_	10/24/2012 10:57	DRY WEIGHT	$20.00
A209776004	MHK_SS-134_	10/24/2012 10:40	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776004	MHK_SS-134_	10/24/2012 10:40	DRY WEIGHT	$20.00
A209776005	MHK_SS-135_	10/24/2012 10:30	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776005	MHK_SS-135_	10/24/2012 10:30	DRY WEIGHT	$20.00

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Workorder A209776
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209776006	MHK_SS-136_	10/24/2012 10:21	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776006	MHK_SS-136_	10/24/2012 10:21	DRY WEIGHT	$20.00
A209776007	MHK_SS-142_	10/24/2012 10:06	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776007	MHK_SS-142_	10/24/2012 10:06	DRY WEIGHT	$20.00
A209776008	MHK_SS-144_	10/24/2012 09:46	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	MANGANESE,200.8,SO,ICP/MS	$15.00

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Workorder A209776
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209776008	MHK_SS-144_	10/24/2012 09:46	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776008	MHK_SS-144_	10/24/2012 09:46	DRY WEIGHT	$20.00
A209776009	MHK_SS-146_	10/24/2012 09:32	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776009	MHK_SS-146_	10/24/2012 09:32	DRY WEIGHT	$20.00
A209776010	MHK_SS-148_	10/24/2012 09:15	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776010	MHK_SS-148_	10/24/2012 09:15	DRY WEIGHT	$20.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92244
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

CC

Workorder A209776
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209776011	MHK_SS-150_	10/24/2012 09:02	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776011	MHK_SS-150_	10/24/2012 09:02	DRY WEIGHT	$20.00
A209776012	OW-104 DUP	10/24/2012 10:57	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	MANGANESE,200.8,SO,ICP/MS	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	THALLIUM,200.8,SO,ICP/MS	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	VANADIUM,200.8,SO,ICP/MS	$15.00
A209776012	OW-104 DUP	10/24/2012 10:57	DRY WEIGHT	$20.00
			Invoice Total	$1,860.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
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Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 92244
Invoice Date 1/4/2013
Due Date 2/3/2013
Account ID 04-0007207
PO

CC

Workorder A209776
Project ID 04-0007207 - MOHAWK TANNERY

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$1,860.00

Client: 04-0007207
Invoice Number: 92244

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-111
EQUIP BLANK = Stainless Steel Hand Tools
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SED-01_0-.3	10/8/12 10:44	1	SED	X									A209326001 10/08/12 10:44 04-0007
MHK_SED-02_0-.3	10/8/12 10:59	1	SED	X									A209326002 10/08/12 10:59 7
MHK_SED-03_0-.3	10/8/12 11:14	1	SED	X									A209326003 10/08/12 11:14 04-0007207
MHK_SED-04_0-.3	10/8/12 11:29	1	SED	X									A209326004 10/08/12 11:29 07207
MHK_SED-05_0-.3	10/8/12 11:44	1	SED	X									A209326005 10/08/12 11:44 04-0007207
MHK_SED-06_0-.3	10/9/12 11:10	1	SED	X									A209326006 10/08/12 11:10 207
MHK_SED-07_0-.3	10/8/12 12:07	1	SED	X									A209326007 10/08/12 12:07 04-0007207
MHK_SED-08_0-.3	10/8/12 12:24	1	SED	X									A209326008 10/08/12 12:24 7207
MHK_SED-09_0-.3	10/8/12 14:44	1	SED	X									A209326009 10/08/12 14:44 04-0007207
MHK_SED-10_0-.3	10/8/12 14:30	1	SED	X									A209326010 10/08/12 14:30 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/9/12 3:23 Received By _____ Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By _____ Date and Time _____ Received By _____

Relinquished By _____ Date and Time _____ **Received For Laboratory By** T. Wells

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By [signature] Date 12-10-12

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-111
EQUIP BLANK = Stainless Steel Hand Tools
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_SED-11_0-.3	10/8/12 15:14	1	SED	X									A209326011 10/08/12 15:14 04-0007
MHK_SED-12_0-.3	10/8/12 15:00	1	SED	X									A209326012 10/08/12 15:00
MHK_SED-13_0-.3	10/9/12 10:39	1	SED	X									A209326013 ~~10/08/12~~ 10:39 10/9/12 04-0007207
MHK_SED-14_0-.3	10/8/12 14:10	1	SED	X									A209326014 10/08/12 14:10 07
MHK_SED-15_0-.3	10/8/12 13:54	1	SED	X									A209326015 10/08/12 13:54 04-0007207
MHK_SED-16_0-.3	10/9/12 9:23	1	SED	X									A209326016 10/09/12 09:23 07
OW-111	10/9/12 10:39	1	SED	X									A209326017 10/09/12 10:39 04-0007207
EQUIP BLANK	10/9/12 11:50	1	AQ	X								S.S. Hand TOOLS	A209326018 10/09/12 11:50 04-0007207

Preservation: Aqueous Metals = HNO_3 Solid Metals = 4°C ±2°C

☒ Temperature Blank Included in Cooler

Relinquished By Kelly M Dubois Date and Time 10/9/12 3:23 Received By

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By Date and Time Received By

Relinquished By Date and Time **Received For Laboratory By** T. Wells

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Data Reviewed By Date 12-10-12

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)

NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name 04-0007307
Temperature of the sample or temperature blank				Temperature 3 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** **Cold Packs(s)** **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: Date/Time Name of Staff Releasing Sample:

Rev 4
5-15-08

Completed By TW Date 10-9-12

QC Results for Work Order A209326 - Sediment Metals

Relative Percent Difference (RPD)								
Sample and Blind Field Duplicate								
RPD = 50% for Sediment Samples								
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Cadmium**	**Lead**	**Manganese**	**Vanadium**	**Mercury**
		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
A209326013	MHK_SED-13_0-.3	9.11	30.2	0.65	52.9	116	22.8	0.705
A209326017	OW-111	8.51	30.9	0.614	63.8	107	25	0.5474
RPD %		**-7**	**2**	**-6**	**18.7**	**-8.1**	**9.2**	**-25.2**
Equipment Blank Results								
A209326018	EQUIP BLANK		No metals detected					
	Stainless Steel Hand Tools							

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209326
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	December 10, 2012
Samples:	
Metals:	17 sediment samples and Equip Blank/
Coments:	SDG MT2-111 EQUIP BLANK = Stainless Steal Hand Tools MS/MSD on MHK_PZ-14

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

The mercury result for sample MHK_SED-13_0-.3 (A209326013) was above the instrument calibration range. It was not diluted and reported as an estimated value. High calibration equivalent is 0.45 mg/kg dry.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The background concentration MHK_SED-10_0-.3 (A210326010) for barium, lead and manganese was much greater than the spike amount; matrix spike and matrix spike recoveries may not be valid.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The LCS recoveries were acceptable.

QUALITY CONTROL DATA

Work Order: A209326-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1158
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209326018

Laboratory Method Blank: 285346

Parameter	Units	Result	RDL
Mercury	mg/L	ND	0.0005

Laboratory Control Sample: 285350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/L	0.002	0.002109	105	90-110

Matrix Spike & Matrix Spike Duplicate: 285352 285353

Parameter	Units	A209326018 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	mg/L	ND	0.002	0.002088 SP	0.002084	104	104	70-130	-0.2

QUALITY CONTROL DATA

Work Order: A209326-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3444
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: A209326018

Laboratory Method Blank: 282414

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 282415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.0505	101	85-115
Arsenic	mg/L	0.050	0.0498	100	85-115
Barium	mg/L	0.050	0.0491	98	85-115
Cadmium	mg/L	0.050	0.0502	100	85-115
Lead	mg/L	0.050	0.0504	101	85-115
Manganese	mg/L	0.050	0.0503	101	85-115
Thallium	mg/L	0.050	0.0518	104	85-115
Vanadium	mg/L	0.050	0.0515	103	85-115

Matrix Spike & Matrix Spike Duplicate: 282416 282417

Parameter	Units	A209573005 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0556	0.0508	111	102	70-130	-9.0
Arsenic	mg/L	0.161	0.05	0.226	0.2080	130	94	70-130	-32.1
Barium	mg/L	0.0232	0.05	0.0792	0.0736	112	101	70-130	-10.5
Cadmium	mg/L	ND	0.05	0.0543	0.0498	109	100	70-130	-8.6
Lead	mg/L	ND	0.05	0.0543	0.0497	109	99	70-130	-8.8
Manganese *	mg/L	1.15	0.05	1.288	1.1940	276	88	70-130	-103.3
Thallium	mg/L	ND	0.05	0.0564	0.0513	113	103	70-130	-9.5
Vanadium	mg/L	ND	0.05	0.0541	0.0500	108	100	70-130	-7.9

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 5x to bring manganese on scale.

QUALITY CONTROL DATA

Work Order: A209326-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/1753,3465 Analysis Method: EPA 200.8
QC Batch Method: EPA 3050B Analysis Description: E200.8 Analysis

Associated Samples: A206326001, A209326002, A201326003, A201326004, A201326005, A201326006, A201326007 A201326008, A201326009, A201326010, A201326011, A201326012, A201326013, A201326014 A201326015, A201326016, A201326017

Laboratory Method Blank:

Parameter	Units	Result	RDL
Antimony	mg/kg	ND	0.2500
Arsenic	mg/kg	ND	0.2500
Barium	mg/kg	ND	1.2500
Cadmium	mg/kg	ND	0.2500
Lead	mg/kg	ND	0.2500
Manganese	mg/kg	ND	1.2500
Thallium	mg/kg	ND	0.2500
Vanadium	mg/kg	ND	1.2500

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Limits mg/kg	LCL % Rec	UPC % Rec
Antimony	mg/kg	59.5	12.0	20	11.3-162	19	272
Arsenic	mg/kg	49.1	45.0	92	32.4-65.8	66	134
Barium	mg/kg	111	128.0	115	79.6-142	72	128
Cadmium	mg/kg	67.9	83.0	122	49.7-95	73	140
Lead	mg/kg	82.8	96.0	116	57.5-108	69	130
Manganese	mg/kg	274	285.0	104	202-346	74	126
Thallium	mg/kg	39.3	50.0	127	23.7-57.2	60	146
Vanadium	mg/kg	96.1	97.0	101	62.4-130	65	135

Matrix Spike & Matrix Spike Duplicate:

Parameter	Units	A209326010 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/kg	ND	2	0.937	0.942	34	34	19-272	0.5
Arsenic	mg/kg	4.13	2	6.77	6.140	75	84	66-134	-9.8
Barium *	mg/kg	16.1	2	19	18.4	126	99	72-128	-3.2
Cadmium	mg/kg	0.71	2	3.33	3.16	111	104	73-140	-5.2
Lead *	mg/kg	17.7	2	23.3	19.2	236	65	69-130	-19.3
Manganese *	mg/kg	50.1	2	51.9	49.7	77	-17	74-126	-4.3
Thallium	mg/kg	ND	2	2.46	2.47	101	103	60-146	0.4
Vanadium	mg/kg	4.32	2	6.05	6.31	73	84	65-135	4.2

* Background concentration much greater than spike amount; Recoveries may not be valid.

QUALITY CONTROL DATA

Work Order: A209326-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1159 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: E245.1 Analysis

Associated Samples: A206326001, A209326002, A201326003, A201326004, A201326005, A201326006, A201326007 A201326008, A201326009, A201326010, A201326011, A201326012, A201326013, A201326014 A201326015, A201326016, A201326017

Laboratory Method Blank: 288354

Parameter	Units	Result	RDL
Mercury	ug/g	ND	0.05

Laboratory Control Sample:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/g	6.91	6.47	94	90-110

Matrix Spike & Matrix Spike Duplicate: 285352 285353

Parameter	Units	A209326018 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	ug/g	0.141	0.25	0.392	0.397	100	102	70-130	2.0

NH DIVISION OF
Public Health Services
Improving health, preventing disease, reducing costs for all

Monday, February 04, 2013

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Wednesday, Oct 10, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Authorized Signature Revised 2/4/13

Enclosures

REPORT OF LABORATORY ANALYSIS

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without the written consent of .

nelac

NH DIVISION OF
Public Health Services
Improving health, preventing disease, reducing costs for all

New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209326 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

All results for pH and residual chlorine samples analyzed more than 15 minutes after time of collection shall be considered QUALIFIED.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of New Hampshire Public Health Laboratories.

nelac

NH DIVISION OF
Public Health Services
Improving health, preventing disease, reducing costs for all

New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209326 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209326001	MHK_SED-01_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 10:44	10/10/2012	198404002
A209326002	MHK_SED-02_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 10:59	10/10/2012	198404002
A209326003	MHK_SED-03_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 11:14	10/10/2012	198404002
A209326004	MHK_SED-04_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 11:29	10/10/2012	198404002
A209326005	MHK_SED-05_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 11:44	10/10/2012	198404002
A209326006	MHK_SED-06_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/9/2012 11:10	10/10/2012	198404002
A209326007	MHK_SED-07_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 12:07	10/10/2012	198404002
A209326008	MHK_SED-08_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 12:24	10/10/2012	198404002
A209326009	MHK_SED-09_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 14:44	10/10/2012	198404002
A209326010	MHK_SED-10_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 14:30	10/10/2012	198404002
A209326011	MHK_SED-11_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 15:14	10/10/2012	198404002
A209326012	MHK_SED-12_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 15:00	10/10/2012	198404002
A209326013	MHK_SED-13_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/9/2012 10:39	10/10/2012	198404002
A209326014	MHK_SED-14_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 14:10	10/10/2012	198404002
A209326015	MHK_SED-15_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/8/2012 13:54	10/10/2012	198404002
A209326016	MHK_SED-16_0-.3	MOHAWK TANNERY, NASHUA	SEDIMENT	10/9/2012 09:23	10/10/2012	198404002
A209326017	OW-111 DUP	MOHAWK TANNERY, NASHUA	SEDIMENT	10/9/2012 10:39	10/10/2012	198404002
A209326018	EQUIP BLANK	MOHAWK TANNERY, NASHUA-SS HAND TOOLS	WATER	10/9/2012 11:50	10/10/2012	198404002

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Fax: (603) 271-2997

ANALYTICAL REPORT COMMENTS AND QUALIFIERS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Parameter Footnotes

E Estimated value;result exceeded upper calibration level.

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326001**
Sample ID: **MHK_SED-01_0-.3**
Description: MOHAWK TANNERY, NASHUA

Matrix: SEDIMENT
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.195	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	3.08	mg/kg Dry	0.1952	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	14.1	mg/kg Dry	0.9760	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	0.4353	mg/kg Dry	0.1952	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	7.85	mg/kg Dry	0.1952	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	72.0	mg/kg Dry	0.976	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.195	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	5.01	mg/kg Dry	0.976	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.0513	mg/kg Dry	0.0469	0.735	10/23/2012 08:00	11/5/2012 11:55		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326002**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-02_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.225	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	2.65	mg/kg Dry	0.2252	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	12.6	mg/kg Dry	1.13	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	0.2724	mg/kg Dry	0.2252	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	8.43	mg/kg Dry	0.2252	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	57.3	mg/kg Dry	1.13	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.225	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	4.97	mg/kg Dry	1.13	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0533	0.8547	10/23/2012 08:00	11/5/2012 11:58		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326003**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-03_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.252	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	4.43	mg/kg Dry	0.2519	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	19.5	mg/kg Dry	1.26	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	1.03	mg/kg Dry	0.2519	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	23.0	mg/kg Dry	0.2519	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	93.3	mg/kg Dry	1.26	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.252	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	5.05	mg/kg Dry	1.26	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2005	mg/kg Dry	0.0612	0.877	10/23/2012 08:00	11/5/2012 12:01		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326004**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-04_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.314	mg/kg Dry	0.255	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	4.98	mg/kg Dry	0.2550	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	21.3	mg/kg Dry	1.27	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	1.12	mg/kg Dry	0.2550	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	29.9	mg/kg Dry	0.2550	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	96.2	mg/kg Dry	1.27	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.255	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	6.34	mg/kg Dry	1.27	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.3201	mg/kg Dry	0.0639	0.99	10/23/2012 08:00	11/5/2012 12:03		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326005**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-05_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	136	mg/kg Dry	2.55	2	11/8/2012 00:00	11/14/2012 13:06	0.05	
Arsenic	7.25	mg/kg Dry	0.2555	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Cadmium	1.12	mg/kg Dry	0.2555	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Barium	27.3	mg/kg Dry	1.28	250	11/8/2012 00:00	11/14/2012 10:22	2	
Lead	45.5	mg/kg Dry	0.2555	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Antimony	ND	mg/kg Dry	0.255	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Thallium	ND	mg/kg Dry	0.255	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	7.25	mg/kg Dry	1.28	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.3416	mg/kg Dry	0.0538	0.833	10/23/2012 08:00	11/5/2012 12:05		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326006**
Sample ID: **MHK_SED-06_0-.3**
Description: MOHAWK TANNERY, NASHUA

Matrix: SEDIMENT
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.259	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	6.30	mg/kg Dry	0.2587	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	20.5	mg/kg Dry	1.29	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	1.07	mg/kg Dry	0.2587	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	23.3	mg/kg Dry	0.2587	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	72.6	mg/kg Dry	1.29	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.259	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	6.89	mg/kg Dry	1.29	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2309	mg/kg Dry	0.0691	1	10/23/2012 08:00	11/5/2012 12:08		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326007**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-07_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.418	mg/kg Dry	0.294	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	6.99	mg/kg Dry	0.2942	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	25.7	mg/kg Dry	1.47	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	1.36	mg/kg Dry	0.2942	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	32.2	mg/kg Dry	0.2942	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	86.7	mg/kg Dry	1.47	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.294	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	6.30	mg/kg Dry	1.47	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.2631	mg/kg Dry	0.0717	0.962	10/23/2012 08:00	11/5/2012 12:11		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326008**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-08_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.250	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	2.34	mg/kg Dry	0.2497	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	11.1	mg/kg Dry	1.25	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	3.02	mg/kg Dry	0.2497	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	ND	mg/kg Dry	0.2497	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	63.7	mg/kg Dry	1.25	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.250	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	5.18	mg/kg Dry	1.25	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1567	mg/kg Dry	0.0493	0.769	10/23/2012 08:00	11/5/2012 12:13		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326009**
Sample ID: **MHK_SED-09_0-.3**
Description: MOHAWK TANNERY, NASHUA

Matrix: SEDIMENT
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.229	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	2.92	mg/kg Dry	0.2289	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	8.37	mg/kg Dry	1.14	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	ND	mg/kg Dry	0.2289	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	3.67	mg/kg Dry	0.2289	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	50.9	mg/kg Dry	1.14	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.229	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	4.22	mg/kg Dry	1.14	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0453	0.735	10/23/2012 08:00	11/5/2012 12:15		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326010**
Sample ID: **MHK_SED-10_0-.3**
Description: MOHAWK TANNERY, NASHUA

Matrix: SEDIMENT
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.248	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	4.14	mg/kg Dry	0.2480	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	16.1	mg/kg Dry	1.24	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	0.7069	mg/kg Dry	0.2480	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	17.7	mg/kg Dry	0.2480	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	50.1	mg/kg Dry	1.24	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.248	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	4.32	mg/kg Dry	1.24	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1405	mg/kg Dry	0.0580	0.917	10/23/2012 08:00	11/5/2012 12:22		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326011**
Sample ID: **MHK_SED-11_0-.3**
Description: MOHAWK TANNERY, NASHUA

Matrix: SEDIMENT
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	263	mg/kg Dry	8.27	4	11/8/2012 00:00	11/14/2012 13:51	0.05	
Arsenic	18.2	mg/kg Dry	1.65	4	11/8/2012 00:00	11/14/2012 13:51	0.01	
Cadmium	10.0	mg/kg Dry	0.4134	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Barium	129	mg/kg Dry	2.07	250	11/8/2012 00:00	11/14/2012 10:22	2	
Lead	171	mg/kg Dry	1.65	4	11/8/2012 00:00	11/14/2012 13:51	0.015	
Antimony	4.32	mg/kg Dry	0.413	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Thallium	ND	mg/kg Dry	1.65	4	11/8/2012 00:00	11/14/2012 13:51	0.002	
Vanadium	23.1	mg/kg Dry	8.27	4	11/8/2012 00:00	11/14/2012 13:51		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.7307	mg/kg Dry	0.0962	0.625	10/23/2012 08:00	11/5/2012 13:18		

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326012**
Sample ID: **MHK_SED-12_0-.3**
Description: MOHAWK TANNERY, NASHUA

Matrix: SEDIMENT
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	265	mg/kg Dry	4.89	2	11/8/2012 00:00	11/14/2012 13:34	0.05	
Arsenic	15.7	mg/kg Dry	0.9781	2	11/8/2012 00:00	11/14/2012 13:34	0.01	
Cadmium	12.4	mg/kg Dry	0.4890	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Barium	149	mg/kg Dry	2.45	250	11/8/2012 00:00	11/14/2012 10:22	2	
Lead	157	mg/kg Dry	0.9781	2	11/8/2012 00:00	11/14/2012 13:34	0.015	
Antimony	2.73	mg/kg Dry	0.489	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Thallium	ND	mg/kg Dry	0.978	2	11/8/2012 00:00	11/14/2012 13:34	0.002	
Vanadium	23.5	mg/kg Dry	4.89	2	11/8/2012 00:00	11/14/2012 13:34		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.4767	mg/kg Dry	0.0946	0.637	10/23/2012 08:00	11/5/2012 13:20		

Date: 02/04/2013

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326013**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-13_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.314	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	9.11	mg/kg Dry	0.3140	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	30.2	mg/kg Dry	1.57	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	0.6500	mg/kg Dry	0.3140	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	52.9	mg/kg Dry	0.3140	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	116	mg/kg Dry	1.57	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.314	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	22.8	mg/kg Dry	1.57	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.7050	mg/kg Dry	0.0444	0.497	10/23/2012 08:00	11/5/2012 12:35		E

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326014**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-14_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	146	mg/kg Dry	2.99	2	11/8/2012 00:00	11/14/2012 13:38	0.05	
Arsenic	8.40	mg/kg Dry	0.5974	2	11/8/2012 00:00	11/14/2012 13:38	0.01	
Cadmium	0.7378	mg/kg Dry	0.2987	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Barium	41.2	mg/kg Dry	1.49	250	11/8/2012 00:00	11/14/2012 10:22	2	
Lead	27.7	mg/kg Dry	0.2987	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Antimony	ND	mg/kg Dry	0.299	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Thallium	ND	mg/kg Dry	0.299	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	9.68	mg/kg Dry	2.99	2	11/8/2012 00:00	11/14/2012 13:38		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.6733	mg/kg Dry	0.1040	0.99	10/23/2012 08:00	11/5/2012 13:23		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326015**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-15_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Manganese	177	mg/kg Dry	2.85	2	11/8/2012 00:00	11/14/2012 13:43	0.05	
Arsenic	11.1	mg/kg Dry	0.5700	2	11/8/2012 00:00	11/14/2012 13:43	0.01	
Cadmium	0.3335	mg/kg Dry	0.2850	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Barium	29.4	mg/kg Dry	1.43	250	11/8/2012 00:00	11/14/2012 10:22	2	
Lead	16.2	mg/kg Dry	0.2850	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Antimony	ND	mg/kg Dry	0.285	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Thallium	ND	mg/kg Dry	0.285	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	15.9	mg/kg Dry	2.85	2	11/8/2012 00:00	11/14/2012 13:43		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	ND	mg/kg Dry	0.0721	0.9523	10/23/2012 08:00	11/5/2012 12:39		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326016**	Matrix:	SEDIMENT
Sample ID:	**MHK_SED-16_0-.3**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	0.514	mg/kg Dry	0.281	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	5.23	mg/kg Dry	0.2811	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	25.1	mg/kg Dry	1.41	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	1.72	mg/kg Dry	0.2811	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	32.9	mg/kg Dry	0.2811	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	74.4	mg/kg Dry	1.41	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.281	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	7.81	mg/kg Dry	1.41	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.1556	mg/kg Dry	0.0595	0.877	10/23/2012 08:00	11/5/2012 12:41		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID:	**A209326017**	Matrix:	SEDIMENT
Sample ID:	**OW-111 DUP**	Sample Type:	SAMPLE
Description:	MOHAWK TANNERY, NASHUA	Collector :	KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: SW-846 3050B								
Analytical Method: EPA 200.8								
Antimony	ND	mg/kg Dry	0.341	250	11/8/2012 00:00	11/14/2012 10:22	0.006	
Arsenic	8.51	mg/kg Dry	0.3411	250	11/8/2012 00:00	11/14/2012 10:22	0.01	
Barium	30.9	mg/kg Dry	1.71	250	11/8/2012 00:00	11/14/2012 10:22	2	
Cadmium	0.6140	mg/kg Dry	0.3411	250	11/8/2012 00:00	11/14/2012 10:22	0.005	
Lead	63.8	mg/kg Dry	0.3411	250	11/8/2012 00:00	11/14/2012 10:22	0.015	
Manganese	107	mg/kg Dry	1.71	250	11/8/2012 00:00	11/14/2012 10:22	0.05	
Thallium	ND	mg/kg Dry	0.341	250	11/8/2012 00:00	11/14/2012 10:22	0.002	
Vanadium	25.0	mg/kg Dry	1.71	250	11/8/2012 00:00	11/14/2012 10:22		
Preparation Method: SW-846 7471A								
Analytical Method: SW-846 7471A								
Mercury	0.5474	mg/kg Dry	0.0908	1	10/23/2012 08:00	11/5/2012 13:25		

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ANALYTICAL RESULTS

Workorder: A209326 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY - NASHUA

Lab ID: **A209326018**
Sample ID: **EQUIP BLANK**
Description: MOHAWK TANNERY, NASHUA-SS HAND TOOLS

Matrix: WATER
Sample Type: EQUIPMENT BLANK-QC
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 12:11		
Manganese	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 12:11	0.05	
Arsenic	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 12:11	0.01	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 12:11	0.005	
Antimony	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 12:11	0.006	
Barium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 12:11	2	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 12:11	0.002	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 12:11	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/5/2012 11:46	0.002	

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FAX (603) 271-2997

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Invoice Number 91587
Invoice Date 12/5/2012
Due Date 1/4/2013
Account ID 04-0007207
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Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326001	MHK_SED-01_	10/8/2012 10:44	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326001	MHK_SED-01_	10/8/2012 10:44	DRY WEIGHT	$20.00
A209326002	MHK_SED-02_	10/8/2012 10:59	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326002	MHK_SED-02_	10/8/2012 10:59	DRY WEIGHT	$20.00
A209326003	MHK_SED-03_	10/8/2012 11:14	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	MANGANESE,200.8,SO,ICP/MS	$15.00

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Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326003	MHK_SED-03_	10/8/2012 11:14	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326003	MHK_SED-03_	10/8/2012 11:14	DRY WEIGHT	$20.00
A209326004	MHK_SED-04_	10/8/2012 11:29	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326004	MHK_SED-04_	10/8/2012 11:29	DRY WEIGHT	$20.00
A209326005	MHK_SED-05_	10/8/2012 11:44	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326005	MHK_SED-05_	10/8/2012 11:44	DRY WEIGHT	$20.00

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Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326006	MHK_SED-06_	10/8/2012 11:10	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326006	MHK_SED-06_	10/8/2012 11:10	DRY WEIGHT	$20.00
A209326007	MHK_SED-07_	10/8/2012 12:07	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326007	MHK_SED-07_	10/8/2012 12:07	DRY WEIGHT	$20.00
A209326008	MHK_SED-08_	10/8/2012 12:24	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	MANGANESE,200.8,SO,ICP/MS	$15.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91587
Invoice Date 12/5/2012
Due Date 1/4/2013
Account ID 04-0007207
PO

CC

Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326008	MHK_SED-08_	10/8/2012 12:24	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326008	MHK_SED-08_	10/8/2012 12:24	DRY WEIGHT	$20.00
A209326009	MHK_SED-09_	10/8/2012 14:44	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326009	MHK_SED-09_	10/8/2012 14:44	DRY WEIGHT	$20.00
A209326010	MHK_SED-10_	10/8/2012 14:30	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326010	MHK_SED-10_	10/8/2012 14:30	DRY WEIGHT	$20.00

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Due Date 1/4/2013
Account ID 04-0007207
PO

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Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326011	MHK_SED-11_	10/8/2012 15:14	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326011	MHK_SED-11_	10/8/2012 15:14	DRY WEIGHT	$20.00
A209326012	MHK_SED-12_	10/8/2012 15:00	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326012	MHK_SED-12_	10/8/2012 15:00	DRY WEIGHT	$20.00
A209326013	MHK_SED-13_	10/9/2012 10:39	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	MANGANESE,200.8,SO,ICP/MS	$15.00

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Invoice Number 91587
Invoice Date 12/5/2012
Due Date 1/4/2013
Account ID 04-0007207
PO

CC

Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326013	MHK_SED-13_	10/9/2012 10:39	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326013	MHK_SED-13_	10/9/2012 10:39	DRY WEIGHT	$20.00
A209326014	MHK_SED-14_	10/8/2012 14:10	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326014	MHK_SED-14_	10/8/2012 14:10	DRY WEIGHT	$20.00
A209326015	MHK_SED-15_	10/8/2012 13:54	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326015	MHK_SED-15_	10/8/2012 13:54	DRY WEIGHT	$20.00

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29 HAZEN DR
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Invoice Number 91587
Invoice Date 12/5/2012
Due Date 1/4/2013
Account ID 04-0007207
PO

CC

Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326016	MHK_SED-16_	10/9/2012 09:23	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326016	MHK_SED-16_	10/9/2012 09:23	DRY WEIGHT	$20.00
A209326017	OW-111 DUP	10/9/2012 10:39	ARSENIC,EPA 200.8,ICPMS,SOLID	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	BARIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	CADMIUM,EPA 200.8,ICPMS,SOLID	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	MANGANESE,200.8,SO,ICP/MS	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	LEAD,EPA 200.8,ICPMS,SOLID	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	ANTIMONY,200.8,SO,ICP/MS	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	THALLIUM,200.8,SO,ICP/MS	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	VANADIUM,200.8,SO,ICP/MS	$15.00
A209326017	OW-111 DUP	10/9/2012 10:39	DRY WEIGHT	$20.00
A209326018	EQUIP BLANK	10/9/2012 11:50	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	EQUIP BLANK	10/9/2012 11:50	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	EQUIP BLANK	10/9/2012 11:50	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	EQUIP BLANK	10/9/2012 11:50	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Invoice Number 91587
Invoice Date 12/5/2012
Due Date 1/4/2013
Account ID 04-0007207
PO

CC

Workorder A209326
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209326018	**EQUIP BLANK**	10/9/2012 11:50	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	**EQUIP BLANK**	10/9/2012 11:50	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	**EQUIP BLANK**	10/9/2012 11:50	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	**EQUIP BLANK**	10/9/2012 11:50	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209326018	**EQUIP BLANK**	10/9/2012 11:50	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
			Invoice Total	$2,770.00

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$2,770.00

Client: 04-0007207
Invoice Number: 91587

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207
Description: **Mohawk Tannery Site**

One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002**
Town: **Nashua, NH**

Temp. °C 6C

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Comments: SDG MT2-121
EQUIP BLANK = Bladder Pump
Lab to choose site-specific MS/MSD

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)	Dissolved Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)							Comments	Lab ID # (For Lab Use Only)
MHK_GZ-10	10/17/12 10:26	1	AQ	X									A209573001 10/17/12 10:26 04-0007
MHK_GZ-13	10/16/12 14:51	1	AQ	X									A209573002 10/16/12 14:51
MHK_GZ-14	10/16/12 11:20	1	AQ	X									A209573003 10/16/12 11:20
MHK_SH-19	10/16/12 17:38	2	AQ	X	X							Field filt	04-0007207 A209573004 10/16/12 17:38
OW-121	10/17/12 10:26	1	AQ	X									A209573005 10/16/12 17:38
EQUIP BLANK	10/17/12 14:44	1	AQ	X								Bladder Pump	A209573006 A209573007 10/17/12 14:44 04-0007207
SDG is not complete.													

Preservation: Aqueous Metals = HNO_3

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/17/12 11:08 Received By —

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By — Date and Time — Received By [signature]

Relinquished By Date and Time **Received For Laboratory By**

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Page 1 of 1 Data Reviewed By [signature] Date 11-26-2012

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)

NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name
Temperature of the sample or temperature blank	✓			Temperature 6 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials_____
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: _____ Date/Time Name of Staff Releasing Sample: _____

Rev 4
5-15-08

Completed By CSN Date 10-18-12

QC Results for Work Order A209573 - Metals

Relative Percent Difference (RPD)				
Sample and Blind Field Duplicate				
RPD = 30% for Aqueous Samples				
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Manganese**
		mg/l	mg/L	mg/l
A209573001	MHK_GZ-10	0.0041	0.0291	2.50
A209573006	OW-121	0.0041	0.0291	2.54
RPD %		**0**	**0**	**2**
Equipment Blank Results				
A209573007	EQUIP BLANK	No metals detected		
	Bladder Pump			

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209573
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	November 20, 2012
Samples:	
Metals:	5 aqueous samples and Equip Blank/MHK_GZ-10, MHK_GZ-13, MHK_GZ-14, MHK_SH-19, OW-121, EQUIP BLANK
Coments:	SDG MT2-121 EQUIP BLANK = Bladder Pump Sample MHK_SH-19 was analyzed for total metals and dissolved metals, dissolved metals were field filtered.

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

Metal samples were not qualified and considered valid.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The manganese concentration in OW-121 was above the instrument calibration and much greater than the spike concentration; MS/MSD recoveries for manganese are not valid.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The LCS recoveries were acceptable.

QUALITY CONTROL DATA

Work Order: A209573-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1156
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209573001, A209573002, A209573003, A209573004, A209573005 A209573006, A209573007

Laboratory Method Blank: 283532

Parameter	Units	Result	RDL
Mercury	mg/L	ND	0.0005

Laboratory Control Sample: 283537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/L	0.002	0.00198	99	90-110

Matrix Spike & Matrix Spike Duplicate: 283538 283539

Parameter	Units	A209573001 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	mg/L	ND	0.002	0.00178	0.00196	89	98	70-130	9.6

QUALITY CONTROL DATA

Work Order: A209573-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3444
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: A209573001, A209573002, A209573003, A209573004
A209573005, A209573006, A209573007

Laboratory Method Blank: 282414

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 282415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.0505	101	85-115
Arsenic	mg/L	0.050	0.0498	100	85-115
Barium	mg/L	0.050	0.0491	98	85-115
Cadmium	mg/L	0.050	0.0502	100	85-115
Lead	mg/L	0.050	0.0504	101	85-115
Manganese	mg/L	0.050	0.0503	101	85-115
Thallium	mg/L	0.050	0.0518	104	85-115
Vanadium	mg/L	0.050	0.0515	103	85-115

Matrix Spike & Matrix Spike Duplicate: 282416 282417

Parameter	Units	A209573005 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0556	0.0508	111	102	70-130	-9.0
Arsenic	mg/L	0.161	0.05	0.226	0.2080	130	94	70-130	-32.1
Barium	mg/L	0.0232	0.05	0.0792	0.0736	112	101	70-130	-10.5
Cadmium	mg/L	ND	0.05	0.0543	0.0498	109	100	70-130	-8.6
Lead	mg/L	ND	0.05	0.0543	0.0497	109	99	70-130	-8.8
Manganese *	mg/L	1.15	0.05	1.288	1.1940	276	88	70-130	-103.3
Thallium	mg/L	ND	0.05	0.0564	0.0513	113	103	70-130	-9.5
Vanadium	mg/L	ND	0.05	0.0541	0.0500	108	100	70-130	-7.9

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 5x to bring manganese on scale.

NH DIVISION OF
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Tuesday, November 13, 2012

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Oct 18, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Barinelli Ph.D.
Organics Supervisor

Authorized Signature

Enclosures

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209573 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209573 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209573001	MHK_GZ-10	MOHAWK, NASHUA	WATER	10/17/2012 10:26	10/18/2012	198404002
A209573002	MHK_GZ-13	MOHAWK, NASHUA	WATER	10/16/2012 14:51	10/18/2012	198404002
A209573003	MHK_GZ-14	MOHAWK, NASHUA	WATER	10/16/2012 11:20	10/18/2012	198404002
A209573004	MHK_SH-19	MOHAWK, NASHUA	WATER	10/16/2012 17:38	10/18/2012	198404002
A209573005	MHK_SH-19	MOHAWK, NASHUA-DISSOLVED	WATER	10/16/2012 17:38	10/18/2012	198404002
A209573006	OW-121	MOHAWK, NASHUA	WATER	10/17/2012 10:26	10/18/2012	198404002
A209573007	EQUIP BLANK	MOHAWK, NASHUA-BLADDER PUMP	WATER	10/17/2012 14:44	10/18/2012	198404002

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ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573001**
Sample ID: **MHK_GZ-10**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0041	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0291	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	2.50	mg/L	0.0500	10	10/25/2012 11:47	10/26/2012 14:19	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:27	0.002	

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573002**
Sample ID: **MHK_GZ-13**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0077	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0498	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	0.0014	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	1.09	mg/L	0.0250	5	10/25/2012 11:47	10/26/2012 14:23	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:34	0.002	

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ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573003**
Sample ID: **MHK_GZ-14**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Manganese	0.0102	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	0.05	
Arsenic	0.0112	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Barium	0.0114	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Lead	0.0019	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:36	0.002	

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ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573004**
Sample ID: **MHK_SH-19**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0168	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0169	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	1.10	mg/L	0.0250	5	10/25/2012 11:47	10/26/2012 15:03	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:39	0.002	

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ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573005** Matrix: WATER
Sample ID: **MHK_SH-19** Sample Type: SAMPLE
Description: MOHAWK, NASHUA-DISSOLVED Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.1610	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0232	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	1.14	mg/L	0.0250	5	10/25/2012 11:47	10/26/2012 14:32	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:41	0.002	

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ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573006**
Sample ID: **OW-121**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0041	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0291	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	2.54	mg/L	0.0500	10	10/25/2012 11:47	10/26/2012 14:41	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:44	0.002	

Date: 11/13/2012

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209573 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209573007**
Sample ID: **EQUIP BLANK**
Description: MOHAWK, NASHUA-BLADDER PUMP

Matrix: WATER
Sample Type: EQUIPMENT BLANK-QC
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:46	0.002	

Date: 11/13/2012

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91134
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209573
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209573001	MHK_GZ-10	10/17/2012 10:26	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573001	MHK_GZ-10	10/17/2012 10:26	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573002	MHK_GZ-13	10/16/2012 14:51	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91134
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209573
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209573003	MHK_GZ-14	10/16/2012 11:20	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573003	MHK_GZ-14	10/16/2012 11:20	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573004	MHK_SH-19	10/16/2012 17:38	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Account ID 04-0007207
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CC

Workorder A209573
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209573005	MHK_SH-19	10/16/2012 17:38	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573005	MHK_SH-19	10/16/2012 17:38	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573006	OW-121	10/17/2012 10:26	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	EQUIP BLANK	10/17/2012 14:44	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91134
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209573
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209573007	**EQUIP BLANK**	10/17/2012 14:44	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209573007	**EQUIP BLANK**	10/17/2012 14:44	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
			Invoice Total	$945.00

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$945.00

Client: 04-0007207
Invoice Number: 91134

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 1.3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-121

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Lab to choose site-specific MS/MSD

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_GZ-11	10/17/12 16:14	1	AQ	X									A209625001 10/17/12 16:14 04-0007207
MHK_SH-13	10/18/12 11:53	1	AQ	X									A209625002 10/18/12 11:53 04-0007207
SDG is complete.													

Preservation: Aqueous Metals = HNO_3

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/18/12 17:20 Received By [signature] Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By [signature] Date and Time 10/19/12 13:25 Received By [signature] EA 1

Relinquished By Date and Time 10/19/12 1350 **Received For Laboratory By** [signature]

Section No.: 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Page 1 of 1 Data Reviewed By [signature] Date 11-26-2012

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)

NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name
Temperature of the sample or temperature blank				Temperature 1.3 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials_____
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: _____ Date/Time Name of Staff Releasing Sample: _____

Rev 4
5-15-08

Completed By [signature] Date 10/19/12

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209625
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	November 20, 2012
Samples:	
Metals:	2 aqueous samples /MHK_GZ-11, MHK_SH-13,
Coments:	SDG MT2-131

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

Metal samples were not qualified and considered valid.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The manganese concentration in MHK_SH-19 was above the instrument calibration and much greater than the spike concentration; MS/MSD recoveries for manganese are not valid.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The LCS recoveries were acceptable.

QUALITY CONTROL DATA

Work Order: A209625-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1156
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209625001, A209625002

Laboratory Method Blank: 283543

Parameter	Units	Result	RDL
Mercury	mg/L	ND	0.0005

Laboratory Control Sample: 283941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/L	0.002	0.00199	100	90-110

Matrix Spike & Matrix Spike Duplicate: 283540 283541

Parameter	Units	A209625001 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	mg/L	ND	0.002	0.00202	0.00205	101	103	70-130	1.5

QUALITY CONTROL DATA

Work Order: A209625-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3444
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: A209625001, A209625002

Laboratory Method Blank: 282414

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 282415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.0505	101	85-115
Arsenic	mg/L	0.050	0.0498	100	85-115
Barium	mg/L	0.050	0.0491	98	85-115
Cadmium	mg/L	0.050	0.0502	100	85-115
Lead	mg/L	0.050	0.0504	101	85-115
Manganese	mg/L	0.050	0.0503	101	85-115
Thallium	mg/L	0.050	0.0518	104	85-115
Vanadium	mg/L	0.050	0.0515	103	85-115

Matrix Spike & Matrix Spike Duplicate: 282416 282417

Parameter	Units	A209573005 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0556	0.0508	111	102	70-130	-9.0
Arsenic	mg/L	0.161	0.05	0.226	0.2080	130	94	70-130	-32.1
Barium	mg/L	0.0232	0.05	0.0792	0.0736	112	101	70-130	-10.5
Cadmium	mg/L	ND	0.05	0.0543	0.0498	109	100	70-130	-8.6
Lead	mg/L	ND	0.05	0.0543	0.0497	109	99	70-130	-8.8
Manganese *	mg/L	1.15	0.05	1.288	1.1940	276	88	70-130	-103.3
Thallium	mg/L	ND	0.05	0.0564	0.0513	113	103	70-130	-9.5
Vanadium	mg/L	ND	0.05	0.0541	0.0500	108	100	70-130	-7.9

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 5x to bring manganese on scale.

NH DIVISION OF
Public Health Services
Improving health, preventing disease, reducing costs for all

Monday, November 26, 2012

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209625 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Friday, Oct 19, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Barinelli Ph.D.
Organics Supervisor

Authorized Signature

Enclosures

REPORT OF LABORATORY ANALYSIS

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NH DIVISION OF
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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209625 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

REPORT OF LABORATORY ANALYSIS

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209625 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209625001	MHK_GZ-11	MOHAWK, NASHUA	WATER	10/17/2012 16:14	10/19/2012	198404002
A209625002	MHK_SH-13	MOHAWK, NASHUA	WATER	10/18/2012 11:53	10/19/2012	198404002

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Department of Health and Human Services
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ANALYTICAL RESULTS

Workorder: A209625 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209625001**
Sample ID: **MHK_GZ-11**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0130	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0397	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	2.81	mg/L	0.0500	10	10/25/2012 11:47	11/2/2012 14:26	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:25	0.002	

REPORT OF LABORATORY ANALYSIS

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Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209625 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209625002**
Sample ID: **MHK_SH-13**
Description: MOHAWK, NASHUA

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Manganese	0.0081	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	0.05	
Arsenic	0.0012	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Barium	0.0086	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:32	0.002	

REPORT OF LABORATORY ANALYSIS

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NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91136
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209625
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209625001	MHK_GZ-11	10/17/2012 16:14	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625001	MHK_GZ-11	10/17/2012 16:14	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209625002	MHK_GZ-13	10/18/2012 11:53	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
			Invoice Total	$270.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
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Invoice To ROBIN MONGEON
NH DEPT OF
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CONCORD NH 03301

Invoice Number 91136
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209625
Project ID 04-0007207 - MOHAWK TANNERY

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$270.00

Client: 04-0007207
Invoice Number: 91136

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 6C

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Aditya Khandekar (603)415-6161/cell (603)496-0275

Comments: SDG MT2-131
EQUIP BLANK = Water Level Meter
MS/MSD on MHK_PZ-14

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Dissolved Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)							Comments	Lab ID # (For Lab Use Only)
MHK_PZ-01	10/16/12 10:45	1	AQ	X									A209564001 10/16/12 10:45
MHK_PZ-02	10/16/12 12:39	1	AQ	X									A209564002 10/16/12 12:39 04-000
MHK_PZ-03	10/16/12 14:50	1	AQ	X									A209564003 10/16/12 14:50
MHK_PZ-04	10/16/12 15:33	1	AQ	X									A209564004 10/16/12 15:33 04-00072
MHK_PZ-06	10/17/12 9:20	1	AQ	X									A209564005 10/17/12 09:20
MHK_PZ-14	10/17/12 10:30	1	AQ	X								MS/MSD	A209564006 10/17/12 10:30 04-00
OW-131	10/17/12 10:30	1	AQ	X									A209564007 10/17/12 10:30
EQUIP BLANK	10/17/12 15:00	1	AQ		X							Water Level Meter	A209564008 10/17/12 15:00 04-0007207

Preservation: Aqueous Metals = HNO_3

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/17/12 11:08 Received By –

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By – Date and Time – Received By [signature]

Relinquished By Date and Time **Received For Laboratory By**

Page 1 of 1 Data Reviewed By [signature] Date 11-26-2012

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)
NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name
Temperature of the sample or temperature blank	✓			Temperature 6 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage**, and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date ___ Time ___ Initials
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: Date/Time Name of Staff Releasing Sample:

Rev 4
5-15-08

Completed By LSW Date 10-18-12

QC Results for Work Order A209564 - Metals

Relative Percent Difference (RPD)			
Sample and Blind Field Duplicate			
RPD = 30% for Aqueous Samples			
Sample ID	**Station ID**	**Barium**	**Manganese**
		mg/L	mg/l
A209564006	MHK_PZ-14	0.0167	0.7609
A209564007	OW-131	0.0173	0.7634
RPD %		**4**	**0.3**
Equipment Blank Results			
A209564007	EQUIP BLANK	No metals detected	
	Water Level		

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209564
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	November 15, 2012
Samples:	
Metals:	7 aqueous samples and Equip Blank/MHK_PZ-01, MHK_PZ-02, MHK_PZ-03, MHK_PZ-04, MHK_PZ-06, MHK_PZ-14, EQUIP BLANK
Coments:	SDG MT2-131 EQUIP BLANK = Water Level Meter MS/MSD on MHK_PZ-14

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

Metal samples were not qualified and considered valid.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

A Matrix Spike/Matrix Spike Duplicate for mercury was not performed due to insufficient sample volume. The manganese concentration in MHK_PZ-14 was above the instrument calibration and much greater than the spike concentration; MS/MSD recoveries for manganese are not valid.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The LCS recoveries were acceptable.

QUALITY CONTROL DATA

Work Order: A209564-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1156
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209564001, A209564002, A209564003, A209564004, A209564005
A209564006, A209564007, A209564008

Laboratory Method Blank: 283532

Parameter	Units	Result	RDL
Mercury	mg/L	ND	0.0005

Laboratory Control Sample: 283537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/L	0.002	0.00198	99	90-110

Matrix Spike & Matrix Spike Duplicate: 283538 283539

Parameter	Units	A209573001 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	mg/L	ND	0.002	0.00178	0.00196	89	98	70-130	9.6

QUALITY CONTROL DATA

Work Order: A209564-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3547
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: A209564001, A209564002, A209564003, A209564004
A209564005, A209564006, A209564007

Laboratory Method Blank: 283669

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 283670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.048	96	85-115
Arsenic	mg/L	0.050	0.047	94	85-115
Barium	mg/L	0.050	0.0475	95	85-115
Cadmium	mg/L	0.050	0.0475	95	85-115
Lead	mg/L	0.050	0.0472	94	85-115
Manganese	mg/L	0.050	0.0472	94	85-115
Thallium	mg/L	0.050	0.0471	94	85-115
Vanadium	mg/L	0.050	0.0471	94	85-115

Matrix Spike & Matrix Spike Duplicate: 283671 282672

Parameter	Units	A209564006 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0477	0.0476	95	95	70-130	-0.2
Arsenic	mg/L	ND	0.05	0.0463	0.0455	93	91	70-130	-1.7
Barium	mg/L	0.0167	0.05	0.0626	0.0606	92	88	70-130	-4.5
Cadmium	mg/L	ND	0.05	0.0468	0.0456	94	91	70-130	-2.6
Lead	mg/L	ND	0.05	0.0464	0.0458	93	92	70-130	-1.3
Manganese *	mg/L	0.739	0.05	0.7980	0.7710	118	64	70-130	-59.3
Thallium	mg/L	ND	0.05	0.0471	0.0460	94	92	70-130	-2.4
Vanadium	mg/L	ND	0.05	0.0460	0.0450	92	90	70-130	-2.2

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 2x to bring manganese on scale.

QUALITY CONTROL DATA

Work Order: A209564-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3444
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: A209564008

Laboratory Method Blank: 282414

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 282415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.0505	101	85-115
Arsenic	mg/L	0.050	0.0498	100	85-115
Barium	mg/L	0.050	0.0491	98	85-115
Cadmium	mg/L	0.050	0.0502	100	85-115
Lead	mg/L	0.050	0.0504	101	85-115
Manganese	mg/L	0.050	0.0503	101	85-115
Thallium	mg/L	0.050	0.0518	104	85-115
Vanadium	mg/L	0.050	0.0515	103	85-115

Matrix Spike & Matrix Spike Duplicate: 282416 282417

Parameter	Units	A209573005 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0556	0.0508	111	102	70-130	-9.0
Arsenic	mg/L	0.161	0.05	0.226	0.2080	130	94	70-130	-32.1
Barium	mg/L	0.0232	0.05	0.0792	0.0736	112	101	70-130	-10.5
Cadmium	mg/L	ND	0.05	0.0543	0.0498	109	100	70-130	-8.6
Lead	mg/L	ND	0.05	0.0543	0.0497	109	99	70-130	-8.8
Manganese *	mg/L	1.15	0.05	1.288	1.1940	276	88	70-130	-103.3
Thallium	mg/L	ND	0.05	0.0564	0.0513	113	103	70-130	-9.5
Vanadium	mg/L	ND	0.05	0.0541	0.0500	108	100	70-130	-7.9

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 5x to bring manganese on scale.

NH DIVISION OF
Public Health Services
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Friday, November 16, 2012

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Oct 18, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Barinelli Ph.D.
Organics Supervisor

Authorized Signature

Enclosures

REPORT OF LABORATORY ANALYSIS

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209564 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209564001	MHK_PZ-01	MOHAWK, NASHUA-DISSOLVED	WATER	10/16/2012 10:45	10/18/2012	198404002
A209564002	MHK_PZ-02	MOHAWK, NASHUA-DISSOLVED	WATER	10/16/2012 12:39	10/18/2012	198404002
A209564003	MHK_PZ-03	MOHAWK, NASHUA-DISSOLVED	WATER	10/16/2012 14:50	10/18/2012	198404002
A209564004	MHK_PZ-04	MOHAWK, NASHUA-DISSOLVED	WATER	10/16/2012 15:33	10/18/2012	198404002
A209564005	MHK_PZ-06	MOHAWK, NASHUA-DISSOLVED	WATER	10/17/2012 09:20	10/18/2012	198404002
A209564006	MHK_PZ-14	MOHAWK, NASHUA-DISSOLVED	WATER	10/17/2012 10:30	10/18/2012	198404002
A209564007	OW-131	MOHAWK, NASHUA-DISSOLVED	WATER	10/17/2012 10:30	10/18/2012	198404002
A209564008	EQUIP BLANK	MOHAWK, NASHUA-WATER LEVEL METER	WATER	10/17/2012 15:00	10/18/2012	198404002

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ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564001**
Sample ID: **MHK_PZ-01**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Manganese	0.4419	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	0.05	
Arsenic	0.0182	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Barium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:03	0.002	

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Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564002**
Sample ID: **MHK_PZ-02**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0088	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.9614	mg/L	0.0250	5	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:05	0.002	

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564003**
Sample ID: **MHK_PZ-03**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0010	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0543	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	2.23	mg/L	0.0500	10	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:08	0.002	

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ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564004**
Sample ID: **MHK_PZ-04**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	0.0026	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0131	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0521	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	0.0193	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.6338	mg/L	0.0100	2	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	0.0087	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:10	0.002	

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ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564005**
Sample ID: **MHK_PZ-06**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0214	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0160	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.5011	mg/L	0.0100	2	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:12	0.002	

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ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564006**
Sample ID: **MHK_PZ-14**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0167	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.7609	mg/L	0.0100	2	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:14	0.002	

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ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564007**
Sample ID: **OW-131**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0173	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.7634	mg/L	0.0100	2	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:17	0.002	

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ANALYTICAL RESULTS

Workorder: A209564 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209564008**
Sample ID: **EQUIP BLANK**
Description: MOHAWK, NASHUÁ-WATER LEVEL METER

Matrix: WATER
Sample Type: EQUIPMENT BLANK-QC
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Manganese	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	0.05	
Arsenic	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Barium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:19	0.002	

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FAX (603) 271-2997

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Invoice To ROBIN MONGEON
NH DEPT OF
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29 HAZEN DR
CONCORD NH 03301

Invoice Number 91208
Invoice Date 11/16/2012
Due Date 12/16/2012
Account ID 04-0007207
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Workorder A209564
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209564001	MHK_PZ-01	10/16/2012 10:45	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564001	MHK_PZ-01	10/16/2012 10:45	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564002	MHK_PZ-02	10/16/2012 12:39	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Workorder A209564
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209564003	MHK_PZ-03	10/16/2012 14:50	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564003	MHK_PZ-03	10/16/2012 14:50	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564004	MHK_PZ-04	10/16/2012 15:33	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Workorder A209564
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209564005	MHK_PZ-06	10/17/2012 09:20	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564005	MHK_PZ-06	10/17/2012 09:20	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564006	MHK_PZ-14	10/17/2012 10:30	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	OW-131	10/17/2012 10:30	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Workorder A209564
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209564007	**OW-131**	10/17/2012 10:30	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564007	**OW-131**	10/17/2012 10:30	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209564008	**EQUIP BLANK**	10/17/2012 15:00	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
			Invoice Total	$1,080.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91208
Invoice Date 11/16/2012
Due Date 12/16/2012
Account ID 04-0007207
PO

CC

Workorder A209564
Project ID 04-0007207 - MOHAWK TANNERY

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$1,080.00

Client: 04-0007207
Invoice Number:91208

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 1.3

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-131

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Dissolved Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)								Comments	Lab ID # (For Lab Use Only)
MHK_PZ-05	10/17/12 15:03	1	AQ	X								A209624001 10/17/12 15:03 04-0007207	
MHK_PZ-07	10/18/12 10:52	1	AQ	X								A209624002 10/18/12 10:52 07	
MHK_PZ-08	10/18/12 12:35	1	AQ	X								A209624003 10/18/12 12:35 04-0007207	
MHK_PZ-09	10/18/12 14:12	1	AQ	X								A209624004 10/18/12 14:12	
MHK_PZ-10	10/18/12 12:17	1	AQ	X								A209624005 10/18/12 12:17 04-0007207	
MHK_PZ-11	10/17/12 15:20	1	AQ	X								A209624006 10/17/12 15:20 207	
MHK_PZ-12	10/18/12 13:48	1	AQ	X								A209624007 10/18/12 13:48 04-0007207	
MHK_PZ-13	10/18/12 11:29	1	AQ	X								A209624008 10/18/12 11:29 07207	
MHK_PZ-15	10/18/12 9:25	1	AQ	X								A209624009 10/18/12 09:25 04-0007207	
SDG is complete.													

Preservation: Aqueous Metals = HNO_3

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/18/12 17:20 Received By [signature] Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Relinquished By [signature] Date and Time 10/19/12 13:25 Received By [signature] EAI

Relinquished By Date and Time 10/19/12 13:50 **Received For Laboratory By** [signature]

Section No : 22.0
Revision No.: 6 (HWRB)
Date: July 2011

Page 1 of 1 Data Reviewed By [signature] Date 11-26-12

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)

NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name
Temperature of the sample or temperature blank	✓			Temperature 1.3 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage**, and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials_____
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: _____ Date/Time Name of Staff Releasing Sample: _____

Rev 4
5-15-08

Completed By CSN Date 10-19-12

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209624
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	November 20, 2012
Samples:	
Metals:	9 aqueous samples /MHK_PZ-05, MHK_PZ-07, MHK_PZ-08, MHK_PZ-09, MHK_PZ-10, MHK_PZ-11, MHK_PZ-12, MHK_PZ-13, MHK_PZ-15
	Samples were analyzed for dissolved metals, samples were field filtered.
Coments:	SDG MT2-131

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

Metal samples were not qualified and considered valid.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The manganese concentration in MHK_PZ-14 was above the instrument calibration and much greater than the spike concentration; MS/MSD recoveries for manganese are not valid.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The LCS recoveries were acceptable.

QUALITY CONTROL DATA

Work Order: A209624-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1156
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209624001, A209624002, A209624003, A629624004, A209624005
A209624006, A209624007, A209624008, A209624009

Laboratory Method Blank: 283543

Parameter	Units	Result	RDL
Mercury	mg/L	ND	0.0005

Laboratory Control Sample: 283941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/L	0.002	0.00199	100	90-110

Matrix Spike & Matrix Spike Duplicate: 283540 283541

Parameter	Units	A209625001 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	mg/L	ND	0.002	0.00202	0.00205	101	103	70-130	1.5

QUALITY CONTROL DATA

Work Order: A209624-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3547
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: AA209624001, A209624002, A209624003, A209624004, A209624005
A209624006, A209624007, A209624008, A209624009

Laboratory Method Blank: 283669

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 283670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.048	96	85-115
Arsenic	mg/L	0.050	0.047	94	85-115
Barium	mg/L	0.050	0.0475	95	85-115
Cadmium	mg/L	0.050	0.0475	95	85-115
Lead	mg/L	0.050	0.0472	94	85-115
Manganese	mg/L	0.050	0.0472	94	85-115
Thallium	mg/L	0.050	0 0471	94	85-115
Vanadium	mg/L	0.050	0.0471	94	85-115

Matrix Spike & Matrix Spike Duplicate: 283671 282672

Parameter	Units	A209564006 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0477	0.0476	95	95	70-130	-0.2
Arsenic	mg/L	ND	0.05	0.0463	0.0455	93	91	70-130	-1.7
Barium	mg/L	0.0167	0.05	0.0626	0.0606	92	88	70-130	-4.5
Cadmium	mg/L	ND	0.05	0.0468	0.0456	94	91	70-130	-2.6
Lead	mg/L	ND	0.05	0.0464	0.0458	93	92	70-130	-1.3
Manganese *	mg/L	0.739	0.05	0.7980	0.7710	118	64	70-130	-59.3
Thallium	mg/L	ND	0.05	0.0471	0.0460	94	92	70-130	-2.4
Vanadium	mg/L	ND	0.05	0.0460	0.0450	92	90	70-130	-2.2

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 2x to bring manganese on scale.

NH DIVISION OF
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Friday, November 16, 2012

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Friday, Oct 19, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Authorized Signature

Enclosures

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209624 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209624001	MHK_PZ-05	MOHAWK, NASHUA-DISSOLVED	WATER	10/17/2012 15:03	10/19/2012	198404002
A209624002	MHK_PZ-07	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 10:52	10/19/2012	198404002
A209624003	MHK_PZ-08	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 12:35	10/19/2012	198404002
A209624004	MHK_PZ-09	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 14:12	10/19/2012	198404002
A209624005	MHK_PZ-10	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 12:17	10/19/2012	198404002
A209624006	MHK_PZ-11	MOHAWK, NASHUA-DISSOLVED	WATER	10/17/2012 15:20	10/19/2012	198404002
A209624007	MHK_PZ-12	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 13:48	10/19/2012	198404002
A209624008	MHK_PZ-13	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 11:29	10/19/2012	198404002
A209624009	MHK_PZ-15	MOHAWK, NASHUA-DISSOLVED	WATER	10/18/2012 09:25	10/19/2012	198404002

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Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624001**
Sample ID: **MHK_PZ-05**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Manganese	0.4282	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	0.05	
Arsenic	0.0131	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Barium	0.0150	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:00	0.002	

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624002**
Sample ID: **MHK_PZ-07**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Manganese	0.4489	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	0.05	
Arsenic	0.0055	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Antimony	0.0027	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Barium	0.0434	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:02	0.002	

Date: 11/16/2012

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624003**
Sample ID: **MHK_PZ-08**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0077	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0307	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	1.19	mg/L	0.0500	10	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:04	0.002	

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624004**
Sample ID: **MHK_PZ-09**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	0.0016	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0036	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0248	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	2.64	mg/L	0.0500	10	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:06	0.002	

Date: 11/16/2012

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624005**
Sample ID: **MHK_PZ-10**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0036	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0200	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	2.64	mg/L	0.0500	10	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:09	0.002	

Date: 11/16/2012

REPORT OF LABORATORY ANALYSIS
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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624006**
Sample ID: **MHK_PZ-11**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.0051	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0381	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	0.0024	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.5072	mg/L	0.0100	2	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:11	0.002	

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624007**
Sample ID: **MHK_PZ-12**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Manganese	0.3842	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	0.05	
Arsenic	0.0076	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Antimony	0.0024	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Barium	0.0379	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:13	0.002	

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND-
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624008**
Sample ID: **MHK_PZ-13**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	0.3053	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0601	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	2.25	mg/L	0.0500	10	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:16	0.002	

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ANALYTICAL RESULTS

Workorder: A209624 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209624009**
Sample ID: **MHK_PZ-15**
Description: MOHAWK, NASHUA-DISSOLVED

Matrix: WATER
Sample Type: SAMPLE
Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.006	
Arsenic	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.01	
Barium	0.0179	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11	2	
Cadmium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.005	
Lead	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.015	
Manganese	0.7973	mg/L	0.0100	2	11/7/2012 09:10	11/9/2012 13:23	0.05	
Thallium	ND	mg/L	0.0010	1	11/7/2012 09:10	11/9/2012 11:11	0.002	
Vanadium	ND	mg/L	0.0050	1	11/7/2012 09:10	11/9/2012 11:11		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 16:18	0.002	

Date: 11/16/2012

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
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FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91209
Invoice Date 11/16/2012
Due Date 12/16/2012
Account ID 04-0007207
PO

CC

Workorder A209624
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209624001	MHK_PZ-05	10/17/2012 15:03	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624001	MHK_PZ-05	10/17/2012 15:03	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624002	MHK_PZ-07	10/18/2012 10:52	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Workorder A209624
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209624003	MHK_PZ-08	10/18/2012 12:35	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624003	MHK_PZ-08	10/18/2012 12:35	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624004	MHK_PZ-09	10/18/2012 14:12	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Invoice Date 11/16/2012
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Account ID 04-0007207
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CC

Workorder A209624
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209624005	MHK_PZ-10	10/18/2012 12:17	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624005	MHK_PZ-10	10/18/2012 12:17	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624006	MHK_PZ-11	10/17/2012 15:20	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Workorder A209624
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209624007	MHK_PZ-12	10/18/2012 13:48	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624007	MHK_PZ-12	10/18/2012 13:48	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624008	MHK_PZ-13	10/18/2012 11:29	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209624009	MHK_PZ-15	10/18/2012 09:25	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91209
Invoice Date 11/16/2012
Due Date 12/16/2012
Account ID 04-0007207
PO

CC

Workorder A209624
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
			Invoice Total	$1,215.00

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$1,215.00

Client: 04-0007207
Invoice Number: 91209

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

NHDPHS LABORATORY SERVICES LOGIN AND CUSTODY SHEET

(Laboratory Policy: Samples not meeting method requirements will be analyzed at the discretion of the NHDPHS, PHL Laboratory.)

Samples must be delivered in a cooler with ice.

LAB ACCOUNT (Billing) #04-0007207 One Stop (PROJEDCT) ID#: **HWR/ORCB** DES Site Number: **198404002** **Temp. °C** 6 C

Description: **Mohawk Tannery Site** Town: **Nashua, NH**

NHDES Contacts: Robin Mongeon (603) 271- 7378, Sharon Perkins (603) 271- 6805 (Sharon's cell 419-9209)

Comments: SDG MT2-141
Lab to choose site-specific MS/MSD

Sanborn Head Contacts: Kelly Dubois (603)415-6135; Tim White (603)415-6139; Chip Crocetti (603)415-6121

Collected By & Phone#: Matthew Stein (603)415-6161/cell (603)496-0275

Sample Location/ID	Date/Time Sampled	# of Containers	Matrix	Total Metals (Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V)	Hardness 10/19/12							Comments	Lab ID # (For Lab Use Only)
MHK_SW-01	10/17/12 12:55	1	AQ	X	✓								A209574001 10/17/12 12:55 04-000
MHK_SW-02	10/17/12 13:31	1	AQ	X	✓								A209574002 10/17/12 13:31
OW-141	10/17/12 13:31	1	AQ	X	✓								A209574003 10/17/12 13:31 04-0007207

Preservation: Aqueous Metals = HNO_3

☒ Temperature Blank Included in Cooler

Relinquished By [signature] Date and Time 10/17/12 11:08 Received By –

Relinquished By – Date and Time – Received By [signature]

Relinquished By Date and Time **Received For Laboratory By**

Matrix: A= Air, S= Soil, SED=Sediments, AQ=Aqueous, Other=____

Section No.: 22.0
Revision No : 6 (HWRB)
Date: July 2011

Page 1 of 1 Data Reviewed By [signature] Date 11-26-2012

AQUEOUS SAMPLE RECEIPT CHECKLIST (TO BE COMPLETED BY DES LABORATORY STAFF ONLY)

NA = Not Applicable

Physical Inspection of the sample containers and submitted paperwork	Yes	No	NA	Inspection Comments and Sample Information
PROJECT (EPA) # current?/ Name	✓			Project (EPA) # or name
Temperature of the sample or temperature blank	✓			Temperature 6 °C
Condition of sample(s) acceptable? (Check for **leakage, breakage,** and volume)	✓			
Was the **paperwork** submitted **adequate** and completely filled out? **Hold times** acceptable?	✓			
Do the **paperwork** and sample **labels agree**?	✓			
Preservation listed on the sample bottle(s)?	✓			
Do VOAs or Radon have **air bubbles**?			✓	
For **EPA 504.1 and 524.2**, was the lab-provided Field Reagent Blank returned with samples to the lab?			✓	
How did the laboratory receive the sample(s)?				✓ **Hand delivered or** ___ **Mail**
Was the sample(s) received in a **cooler**? What was used to lower the temp?	✓			✓ **Ice** ___ **Cold Packs(s)** ___ **Nothing**
Complete the lines below if applicable				
Was the Client contacted by phone? Reason				Date_____ Time_____ Initials_____
Additional Comments:				
If present, was the Custody of Seal intact?				
Was the sample(s) **subcontracted**? List the samples which were sent and tests requested:				Contract Lab: _____ Date/Time Name of Staff Releasing Sample:

Rev 4
5-15-08

Completed By RSN Date 10-18-12

QC Results for Work Order A209574 - Metals & Hardness

Relative Percent Difference (RPD)					
Sample and Blind Field Duplicate					
RPD = 30% for Aqueous Samples					
Sample ID	**Station ID**	**Arsenic**	**Barium**	**Manganese**	**Hardness**
		mg/L	mg/L	mg/l	mg/l
A209574002	MHK_GZ-10	0.0032	0.0179	0.6006	44.26
A209574003	OW-141	0.0030	0.0171	0.5932	45.22
RPD %		**6**	**5**	**1**	**2**
Equipment Blank Results					
No Equipment Blank					

DATA VALIDATION REPORT
USEPA REGION 1 – MODIFIED TIER1

Laboratory WO:	A209574
Laboratory:	NH PHL Water Analysis Lab
Site:	Mohawk Tannery, Nashua, NH
Date:	November 20, 2012
Samples:	
Metals:	3 surface water samples /MHK_SW-01, MHK_SW-02, OW-141
Coments:	SDG MT2-141

A Modified Tier 1 validation was performed on the analytical data for 7 aqueous samples and an Equip Blank collected by Sanborn Head at the Mohawk Tannery site in Nashua, New Hampshire. Samples were delivered to the New Hampshire PHL Laboratory. The samples were analyzed for metals. The data were evaluated as a modified Tier 1 in accordance with the "Region 1 EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996 and method specific criteria and were based on the following parameters:

- Data Completeness.
- Preservation and Technical Holding Times.
- Blanks.
- Surrogate Compounds.
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD).
- Field Duplicates.
- Laboratory Control Samples.

Data Qualification Summary

Metals:

Metal samples were not qualified and considered valid.

Data Completeness

All criteria were met.

Preservation and Technical Holding Times

All preservation and holding times were met.

Blanks

All Method Blanks were free of contaminants.

Surrogate Compounds

NA Not applicable

Matrix Spike/Matrix Spike Duplicate Sample

The manganese concentration in MHK_SW-02 was above the instrument calibration and much greater than the spike concentration; MS/MSD recoveries for manganese are not valid.

The laboratory did not perform an MS/MSD for mercury on a surface water sample. Surface water samples were analyzed in a batch with ground water samples; a ground water sample was spiked.

Field Duplicates

Field duplicate were blind to the laboratory and were not evaluated.

Laboratory Control Sample

The LCS recoveries were acceptable.

QUALITY CONTROL DATA

Work Order: A209574-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: CVAA/1156
QC Batch Method: EPA 245.1

Analysis Method: EPA 245.1
Analysis Description: E245.1 Analysis

Associated Samples: A209574001, A209574002, A209574003

Laboratory Method Blank: 283532

Parameter	Units	Result	RDL
Mercury	mg/L	ND	0.0005

Laboratory Control Sample: 283537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/L	0.002	0.00198	99	90-110

Matrix Spike & Matrix Spike Duplicate: 283538 283539

Parameter	Units	A209573001 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Mercury	mg/L	ND	0.002	0.00178	0.00196	89	98	70-130	9.6

QUALITY CONTROL DATA

Work Order: A209574-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/3444
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8
Analysis Description: E200.8 Analysis

Associated Samples: A209574001, A209574002, A209574003

Laboratory Method Blank: 282414

Parameter	Units	Result	RDL
Antimony	mg/L	ND	0.0030
Arsenic	mg/L	ND	0.0010
Barium	mg/L	ND	0.0050
Cadmium	mg/L	ND	0.0020
Lead	mg/L	ND	0.0010
Manganese	mg/L	ND	0.0050
Thallium	mg/L	ND	0.0010
Vanadium	mg/L	ND	0.0050

Laboratory Control Sample: 282415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Antimony	mg/L	0.050	0.0505	101	85-115
Arsenic	mg/L	0.050	0.0498	100	85-115
Barium	mg/L	0.050	0.0491	98	85-115
Cadmium	mg/L	0.050	0.0502	100	85-115
Lead	mg/L	0.050	0.0504	101	85-115
Manganese	mg/L	0.050	0.0503	101	85-115
Thallium	mg/L	0.050	0.0518	104	85-115
Vanadium	mg/L	0.050	0.0515	103	85-115

Matrix Spike & Matrix Spike Duplicate: 28418 28419

Parameter	Units	A209574002 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limit	RPD
Antimony	mg/L	ND	0.05	0.0555	0.0522	111	104	70-130	-6.1
Arsenic	mg/L	0.00317	0.05	0.0569	0.0542	107	102	70-130	-5.2
Barium	mg/L	0.0179	0.05	0.0709	0.0680	106	100	70-130	-5.6
Cadmium	mg/L	ND	0.05	0.0547	0.0515	109	103	70-130	-6.0
Lead	mg/L	ND	0.05	0.0555	0.0519	111	104	70-130	-6.7
Manganese *	mg/L	0.665	0.05	0.697	0.6600	64	-10	70-130	-274.1
Thallium	mg/L	ND	0.05	0.0574	0.0528	115	106	70-130	-8.3
Vanadium	mg/L	ND	0.05	0.0541	0.0527	108	105	70-130	-2.6

* Managanese result above instrument calibration. Spike recovery is not valid. Digest was diluted 2x to bring manganese on scale.

QUALITY CONTROL DATA

Work Order: A209574-Superfund
Project ID: 04-0007207-Mohawk Tannery

QC Batch: DIGM/2484
QC Batch Method: EPA 200.2

Analysis Method: EPA 200.7
Analysis Description: E200.7 Analysis

Associated Samples: A209574001, A209574002, A209574003

Laboratory Method Blank: 282441

Parameter	Units	Result	RDL
Hardness	mg/L	ND	3

Laboratory Control Sample: 282442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Hardness	mg/L	61.5	61.6	100	85-115

Matrix Spike & Matrix Spike Duplicate: 282443 282444

Parameter	Units	A209574003 Results	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	%Rec Limits	RPD
Hardness	mg/L	45.22	61.6	106.5	105.7	99	98	70-130	-1.3

NH DIVISION OF
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Tuesday, November 13, 2012

ROBIN MONGEON
NH DEPT OF ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

RE: Workorder: A209574 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Dear ROBIN MONGEON:

Enclosed are the analytical results for the sample(s) received by the laboratory on Thursday, Oct 18, 2012. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to http://www.des.state.nh.us/nhelap/accredited/ for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us.

The following signature indicates technical review and acceptance of the data.

Sincerely,

Lucio Ennelli Ph.D.
Organics Supervisor
Authorized Signature

Enclosures

REPORT OF LABORATORY ANALYSIS

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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

DATA QUALIFIER DESCRIPTIONS

Workorder: A209574 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than	< = Less than
mg/L = milligrams per Liter	ug/L = micrograms per Liter
mg/kg = milligrams per kilogram	ug/kg = micrograms per kilogram
P-A = Present/Absent	CTS/100 mL = Counts per 100 milliliters
CFU = Colony forming unit	MPN = Most Probable Number
pCi/L = picoCuries per Liter	

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

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NH DIVISION OF
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New Hampshire Public Health Laboratories
Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

SAMPLE SUMMARY

Workorder: A209574 - SUPERFND

Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc Info
A209574001	MHK_SW-01	MOHAWK, NASHUA	WATER	10/17/2012 12:55	10/18/2012	198404002
A209574002	MHK_SW-02	MOHAWK, NASHUA	WATER	10/17/2012 13:31	10/18/2012	198404002
A209574003	OW-141	MOHAWK, NASHUA	WATER	10/17/2012 13:31	10/18/2012	198404002

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Department of Health and Human Services
29 Hazen Dr., Concord NH 03301
Phone: (603) 271-3445
Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209574 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209574001** Matrix: WATER
Sample ID: **MHK_SW-01** Sample Type: SAMPLE
Description: MOHAWK, NASHUA Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.7								
Hardness	58.17	mg/L	3	1	10/25/2012 13:27	10/29/2012 10:06		
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	0.0039	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0409	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.1611	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	0.0030	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	0.0354	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	3.19	mg/L	0.0500	10	10/25/2012 11:47	10/26/2012 14:49	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	0.0114	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:48	0.002	

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ANALYTICAL RESULTS

Workorder: A209574 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209574002** Matrix: WATER
Sample ID: **MHK_SW-02** Sample Type: SAMPLE
Description: MOHAWK, NASHUA Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.7								
Hardness	44.26	mg/L	3	1	10/25/2012 13:27	10/29/2012 10:06		
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0032	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0179	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	0.6006	mg/L	0.0100	2	10/25/2012 11:47	10/26/2012 14:54	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:50	0.002	

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Fax: (603) 271-2997

ANALYTICAL RESULTS

Workorder: A209574 - SUPERFND
Project ID: 04-0007207 - MOHAWK TANNERY

Lab ID: **A209574003** Matrix: WATER
Sample ID: **OW-141** Sample Type: SAMPLE
Description: MOHAWK, NASHUA Collector : KELLY DUBOIS

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Inorganics								
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.7								
Hardness	45.22	mg/L	3	1	10/25/2012 13:27	10/29/2012 10:06		
Preparation Method: EPA 200.2								
Analytical Method: EPA 200.8								
Antimony	ND	mg/L	0.0030	1	10/25/2012 11:47	10/26/2012 11:06	0.006	
Arsenic	0.0030	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.01	
Barium	0.0171	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06	2	
Cadmium	ND	mg/L	0.0020	1	10/25/2012 11:47	10/26/2012 11:06	0.005	
Lead	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.015	
Manganese	0.5932	mg/L	0.0100	2	10/25/2012 11:47	10/26/2012 14:58	0.05	
Thallium	ND	mg/L	0.0010	1	10/25/2012 11:47	10/26/2012 11:06	0.002	
Vanadium	ND	mg/L	0.0050	1	10/25/2012 11:47	10/26/2012 11:06		
Analytical Method: EPA 245.1								
Mercury	ND	mg/L	0.0005	1		11/7/2012 15:57	0.002	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
29 HAZEN DR., CONCORD NH 03301
PHONE (603) 271-3445
FAX (603) 271-2997

Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91135
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209574
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209574001	MHK_SW-01	10/17/2012 12:55	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	HARDNESS,EPA 200.7,ICP,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574001	MHK_SW-01	10/17/2012 12:55	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	HARDNESS,EPA 200.7,ICP,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574002	MHK_SW-02	10/17/2012 13:31	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	OW-141	10/17/2012 13:31	ARSENIC,EPA 200.8,ICPMS,AQUEOUS	$15.00

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Invoice

Invoice To ROBIN MONGEON
NH DEPT OF
ENVIRONMENTAL SERVICES
29 HAZEN DR
CONCORD NH 03301

Invoice Number 91135
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209574
Project ID 04-0007207 - MOHAWK TANNERY

Charge Details

Lab ID	Sample ID	Collected	Test Description	Charge
A209574003	**OW-141**	10/17/2012 13:31	BARIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	CADMIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	HARDNESS,EPA 200.7,ICP,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	MERCURY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	MANGANESE,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	LEAD,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	ANTIMONY,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	THALLIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
A209574003	**OW-141**	10/17/2012 13:31	VANADIUM,EPA 200.8,ICPMS,AQUEOUS	$15.00
			Invoice Total	$450.00

NEW HAMPSHIRE PUBLIC HEALTH LABORATORIES
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Invoice

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29 HAZEN DR
CONCORD NH 03301

Invoice Number 91135
Invoice Date 11/13/2012
Due Date 12/13/2012
Account ID 04-0007207
PO

CC

Workorder A209574
Project ID 04-0007207 - MOHAWK TANNERY

Payment Details

PLEASE RETURN BOTTOM WITH PAYMENT

Make checks payable to:
Treasurer State of NH

Please pay this amount:
$450.00

Client: 04-0007207
Invoice Number: 91135

Remit To NHPHL - WATER ANALYSIS LABORATORY
29 HAZEN DR
CONCORD NH 03301

APPENDIX A.2

USEPA Laboratory
Validated Laboratory Reports

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 15, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100010
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in Soils Medium Level
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAS3.

Samples were prepared using pressurized fluid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this analysis is based on US EPA SW-846 methods 3545A and 8270C and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/09/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA, ou=EIA, email=boudreau.dan@epa.gov, c=US
Date: 2012.10.15 11:17:55 -04'00'

12100010$BNAMS

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-01_0-.3	Lab Sample ID:	AB34165
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	23.331 grams	Extract Dilution:	1
Wet Weight Extracted:	30.101 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-01_0-.3	Lab Sample ID:	AB34165
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	23.331 grams	Extract Dilution:	1
Wet Weight Extracted:	30.101 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-01_0-.3	Lab Sample ID:	AB34165
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	23.331 grams	Extract Dilution:	1
Wet Weight Extracted:	30.101 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	83	22 - 97
Phenol-d6 (SS2)	83	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	88	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-02_0-.3	Lab Sample ID:	AB34166
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	23.24 grams	Extract Dilution:	1
Wet Weight Extracted:	30.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-02_0-.3	Lab Sample ID:	AB34166
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	23.24 grams	Extract Dilution:	1
Wet Weight Extracted:	30.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-02_0-.3	Lab Sample ID:	AB34166
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	23.24 grams	Extract Dilution:	1
Wet Weight Extracted:	30.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	80	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

4b,5,6,7,8,8a,9,10-octahydro-4b,8-Dimethyl-2-isopropylphenathrene	2,000	ppb	J

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-03_0-.3	Lab Sample ID:	AB34167
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	75%
Dry Weight Extracted:	22.609 grams	Extract Dilution:	1
Wet Weight Extracted:	30.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	440	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-03_0-.3	Lab Sample ID:	AB34167
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	75%
Dry Weight Extracted:	22.609 grams	Extract Dilution:	1
Wet Weight Extracted:	30.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	**130**	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	**110**	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**260**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-03_0-.3	Lab Sample ID:	AB34167
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	75%
Dry Weight Extracted:	22.609 grams	Extract Dilution:	1
Wet Weight Extracted:	30.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	**120**	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**180**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	80	22 - 97
Phenol-d6 (SS2)	80	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	80	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

n-Hexadecanoic acid	5,500	ppb	J
18-Norabietane	1,700	ppb	J
10,18-Bisnorabeta-5,7,9(10),11,13-pentaene	5,700	ppb	J
1-methyl-7-(1-methethyl)-phenanthrene	3,000	ppb	J
Tricosane	1,900	ppb	J
Octadecanal	1,500	ppb	J

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-04_0-.3	Lab Sample ID:	AB34168
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	73%
Dry Weight Extracted:	22.027 grams	Extract Dilution:	1
Wet Weight Extracted:	30.02 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	450	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-04_0-.3	Lab Sample ID:	AB34168
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	73%
Dry Weight Extracted:	22.027 grams	Extract Dilution:	1
Wet Weight Extracted:	30.02 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**120**	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	**360**	110	
50-32-8	Benzo(a)pyrene	**320**	110	
205-99-2	Benzo(b)fluoranthene	**410**	110	
191-24-2	Benzo(g,h,i)perylene	**200**	110	
207-08-9	Benzo(k)fluoranthene	**150**	110	
65-85-0	Benzoic acid	ND	230	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	**370**	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**820**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	**160**	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-04_0-.3	Lab Sample ID:	AB34168
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	73%
Dry Weight Extracted:	22.027 grams	Extract Dilution:	1
Wet Weight Extracted:	30.02 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	**610**	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**670**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	70	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	75	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-05_0-.3	Lab Sample ID:	AB34169
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	59%
Dry Weight Extracted:	17.791 grams	Extract Dilution:	1
Wet Weight Extracted:	30.01 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	
120-82-1	1,2,4-Trichlorobenzene	ND	140	
95-50-1	1,2-Dichlorobenzene	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	140	
99-65-0	1,3-Dinitrobenzene	ND	140	
106-46-7	1,4-Dichlorobenzene	ND	140	
130-15-4	1,4-Naphthoquinone	ND	140	
90-12-0	1-Methylnaphthalene	ND	140	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	140	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	
95-95-4	2,4,5-Trichlorophenol	ND	140	
88-06-2	2,4,6-Trichlorophenol	ND	140	
120-83-2	2,4-Dichlorophenol	ND	140	
51-28-5	2,4-Dinitrophenol	ND	280	
121-14-2	2,4-Dinitrotoluene	ND	140	
105-67-9	2,4-dimethylphenol	ND	140	
87-65-0	2,6-Dichlorophenol	ND	140	
606-20-2	2,6-Dinitrotoluene	ND	140	
91-58-7	2-Chloronaphthalene	ND	140	
95-57-8	2-Chlorophenol	ND	140	
91-57-6	2-Methylnaphthalene	ND	140	
95-48-7	2-Methylphenol	ND	140	
88-74-4	2-Nitroaniline	ND	140	
88-75-5	2-Nitrophenol	ND	140	
108-39-4/106-44-	3&4-Methylphenol	ND	280	
91-94-1	3,3'-Dichlorobenzidine	ND	140	
56-49-5	3-Methylcholanthrene	ND	140	
99-09-2	3-Nitroaniline	ND	140	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	140	
59-50-7	4-Chloro-3-methylphenol	ND	140	
106-47-8	4-Chloroaniline	ND	140	
7005-72-3	4-Chlorophenyl-phenylether	ND	140	
100-01-6	4-Nitroaniline	ND	140	
100-02-7	4-Nitrophenol	ND	140	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	ND	140	
208-96-8	Acenaphthylene	ND	140	
98-86-2	Acetophenone	ND	140	
62-53-3	Aniline	ND	140	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-05_0-.3	Lab Sample ID:	AB34169
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	59%
Dry Weight Extracted:	17.791 grams	Extract Dilution:	1
Wet Weight Extracted:	30.01 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	140	
140-57-8	Aramite	ND	140	
103-33-3	Azobenzene	ND	140	
92-87-5	Benzidine	ND	140	
56-55-3	Benzo(a)anthracene	ND	140	
50-32-8	Benzo(a)pyrene	ND	140	
205-99-2	Benzo(b)fluoranthene	**140**	140	
191-24-2	Benzo(g,h,i)perylene	ND	140	
207-08-9	Benzo(k)fluoranthene	ND	140	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	140	
111-44-4	Bis(2-Chloroethyl)ether	ND	140	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	140	
85-68-7	Butylbenzylphthalate	ND	140	
86-74-8	Carbazole	ND	140	
510-15-6	Chlorobenzilate	ND	140	
218-01-9	Chrysene	ND	140	
84-74-2	Di-n-butylphthalate	ND	140	
117-84-0	Di-n-octyl phthalate	ND	140	
53-70-3	Dibenz(a,h)anthracene	ND	140	
132-64-9	Dibenzofuran	ND	140	
84-66-2	Diethylphthalate	ND	140	
131-11-3	Dimethyl phthalate	ND	140	
88-85-7	Dinoseb	ND	140	
62-50-0	Ethyl methanesulfonate	ND	140	
206-44-0	Fluoranthene	**210**	140	
86-73-7	Fluorene	ND	140	
118-74-1	Hexachlorobenzene	ND	140	
87-68-3	Hexachlorobutadiene	ND	140	
77-47-4	Hexachlorocyclopentadiene	ND	140	
67-72-1	Hexachloroethane	ND	140	
1888-71-7	Hexachloropropene	ND	140	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	140	
465-73-6	Isodrin	ND	140	
78-59-1	Isophorone	ND	140	
120-58-1	Isosafrole	ND	140	
143-50-0	Kepone	ND	140	
66-27-3	Methyl methanesulfonate	ND	140	
86-30-6	N-Nitrosodiphenylamine	ND	140	
621-64-7	N-nitroso-di-n-propylamine	ND	140	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-05_0-.3	Lab Sample ID:	AB34169
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	59%
Dry Weight Extracted:	17.791 grams	Extract Dilution:	1
Wet Weight Extracted:	30.01 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	140	
91-20-3	Naphthalene	ND	140	
98-95-3	Nitrobenzene	ND	140	
608-93-5	Pentachlorobenzene	ND	140	
82-68-8	Pentachloronitrobenzene	ND	140	
87-86-5	Pentachlorophenol	ND	140	
62-44-2	Phenacetin	ND	140	
85-01-8	Phenanthrene	**160**	140	
108-95-2	Phenol	ND	140	
129-00-0	Pyrene	**190**	140	
110-86-1	Pyridine	ND	140	
94-59-7	Safrole	ND	140	
111-91-1	bis(-2-Chloroethoxy)methane	ND	140	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	70	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	78	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-06_0-.3	Lab Sample ID:	AB34170
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	23.137 grams	Extract Dilution:	1
Wet Weight Extracted:	29.985 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-06_0-.3	Lab Sample ID:	AB34170
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	23.137 grams	Extract Dilution:	1
Wet Weight Extracted:	29.985 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-06_0-.3	Lab Sample ID:	AB34170
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	23.137 grams	Extract Dilution:	1
Wet Weight Extracted:	29.985 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	68	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	48	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	73	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-07_0-.3	Lab Sample ID:	AB34171
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	69%
Dry Weight Extracted:	20.623 grams	Extract Dilution:	1
Wet Weight Extracted:	30.076 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
99-65-0	1,3-Dinitrobenzene	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
130-15-4	1,4-Naphthoquinone	ND	120	
90-12-0	1-Methylnaphthalene	ND	120	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	120	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	120	
95-95-4	2,4,5-Trichlorophenol	ND	120	
88-06-2	2,4,6-Trichlorophenol	ND	120	
120-83-2	2,4-Dichlorophenol	ND	120	
51-28-5	2,4-Dinitrophenol	ND	240	
121-14-2	2,4-Dinitrotoluene	ND	120	
105-67-9	2,4-dimethylphenol	ND	120	
87-65-0	2,6-Dichlorophenol	ND	120	
606-20-2	2,6-Dinitrotoluene	ND	120	
91-58-7	2-Chloronaphthalene	ND	120	
95-57-8	2-Chlorophenol	ND	120	
91-57-6	2-Methylnaphthalene	ND	120	
95-48-7	2-Methylphenol	ND	120	
88-74-4	2-Nitroaniline	ND	120	
88-75-5	2-Nitrophenol	ND	120	
108-39-4/106-44-	3&4-Methylphenol	ND	240	
91-94-1	3,3'-Dichlorobenzidine	ND	120	
56-49-5	3-Methylcholanthrene	ND	120	
99-09-2	3-Nitroaniline	ND	120	
534-52-1	4,6-Dinitro-2-methylphenol	ND	240	
101-55-3	4-Bromophenyl-phenylether	ND	120	
59-50-7	4-Chloro-3-methylphenol	ND	120	
106-47-8	4-Chloroaniline	ND	120	
7005-72-3	4-Chlorophenyl-phenylether	ND	120	
100-01-6	4-Nitroaniline	ND	120	
100-02-7	4-Nitrophenol	ND	120	
56-57-5	4-nitroquinoline-1-oxide	ND	490	
83-32-9	Acenaphthene	ND	120	
208-96-8	Acenaphthylene	ND	120	
98-86-2	Acetophenone	ND	120	
62-53-3	Aniline	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-07_0-.3	Lab Sample ID:	AB34171
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	69%
Dry Weight Extracted:	20.623 grams	Extract Dilution:	1
Wet Weight Extracted:	30.076 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	120	
140-57-8	Aramite	ND	120	
103-33-3	Azobenzene	ND	120	
92-87-5	Benzidine	ND	120	
56-55-3	Benzo(a)anthracene	ND	120	
50-32-8	Benzo(a)pyrene	ND	120	
205-99-2	Benzo(b)fluoranthene	**140**	120	
191-24-2	Benzo(g,h,i)perylene	ND	120	
207-08-9	Benzo(k)fluoranthene	ND	120	
65-85-0	Benzoic acid	ND	240	
100-51-6	Benzyl alcohol	ND	120	
111-44-4	Bis(2-Chloroethyl)ether	ND	120	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	120	
85-68-7	Butylbenzylphthalate	ND	120	
86-74-8	Carbazole	ND	120	
510-15-6	Chlorobenzilate	ND	120	
218-01-9	Chrysene	ND	120	
84-74-2	Di-n-butylphthalate	ND	120	
117-84-0	Di-n-octyl phthalate	ND	120	
53-70-3	Dibenz(a,h)anthracene	ND	120	
132-64-9	Dibenzofuran	ND	120	
84-66-2	Diethylphthalate	ND	120	
131-11-3	Dimethyl phthalate	ND	120	
88-85-7	Dinoseb	ND	120	
62-50-0	Ethyl methanesulfonate	ND	120	
206-44-0	Fluoranthene	**190**	120	
86-73-7	Fluorene	ND	120	
118-74-1	Hexachlorobenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
77-47-4	Hexachlorocyclopentadiene	ND	120	
67-72-1	Hexachloroethane	ND	120	
1888-71-7	Hexachloropropene	ND	120	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	
465-73-6	Isodrin	ND	120	
78-59-1	Isophorone	ND	120	
120-58-1	Isosafrole	ND	120	
143-50-0	Kepone	ND	120	
66-27-3	Methyl methanesulfonate	ND	120	
86-30-6	N-Nitrosodiphenylamine	ND	120	
621-64-7	N-nitroso-di-n-propylamine	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-07_0-.3	Lab Sample ID:	AB34171
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	69%
Dry Weight Extracted:	20.623 grams	Extract Dilution:	1
Wet Weight Extracted:	30.076 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	120	
91-20-3	Naphthalene	ND	120	
98-95-3	Nitrobenzene	ND	120	
608-93-5	Pentachlorobenzene	ND	120	
82-68-8	Pentachloronitrobenzene	ND	120	
87-86-5	Pentachlorophenol	ND	120	
62-44-2	Phenacetin	ND	120	
85-01-8	Phenanthrene	ND	120	
108-95-2	Phenol	ND	120	
129-00-0	Pyrene	**160**	120	
110-86-1	Pyridine	ND	120	
94-59-7	Safrole	ND	120	
111-91-1	bis(-2-Chloroethoxy)methane	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	83	22 - 97
Phenol-d6 (SS2)	80	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	90	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-08_0-.3	Lab Sample ID:	AB34172
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	23.507 grams	Extract Dilution:	1
Wet Weight Extracted:	29.909 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-08_0-.3	Lab Sample ID:	AB34172
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	23.507 grams	Extract Dilution:	1
Wet Weight Extracted:	29.909 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	**120**	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	**110**	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**220**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-08_0-.3	Lab Sample ID:	AB34172
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	23.507 grams	Extract Dilution:	1
Wet Weight Extracted:	29.909 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	**210**	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**180**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	75	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	80	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	100%
Dry Weight Extracted:	30.113 grams	Extract Dilution:	1
Wet Weight Extracted:	30.135 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	83	
120-82-1	1,2,4-Trichlorobenzene	ND	83	
95-50-1	1,2-Dichlorobenzene	ND	83	
541-73-1	1,3-Dichlorobenzene	ND	83	
99-65-0	1,3-Dinitrobenzene	ND	83	
106-46-7	1,4-Dichlorobenzene	ND	83	
130-15-4	1,4-Naphthoquinone	ND	83	
90-12-0	1-Methylnaphthalene	ND	83	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	83	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	83	
95-95-4	2,4,5-Trichlorophenol	ND	83	
88-06-2	2,4,6-Trichlorophenol	ND	83	
120-83-2	2,4-Dichlorophenol	ND	83	
51-28-5	2,4-Dinitrophenol	ND	170	
121-14-2	2,4-Dinitrotoluene	ND	83	
105-67-9	2,4-dimethylphenol	ND	83	
87-65-0	2,6-Dichlorophenol	ND	83	
606-20-2	2,6-Dinitrotoluene	ND	83	
91-58-7	2-Chloronaphthalene	ND	83	
95-57-8	2-Chlorophenol	ND	83	
91-57-6	2-Methylnaphthalene	ND	83	
95-48-7	2-Methylphenol	ND	83	
88-74-4	2-Nitroaniline	ND	83	
88-75-5	2-Nitrophenol	ND	83	
108-39-4/106-44-	3&4-Methylphenol	ND	170	
91-94-1	3,3'-Dichlorobenzidine	ND	83	
56-49-5	3-Methylcholanthrene	ND	83	
99-09-2	3-Nitroaniline	ND	83	
534-52-1	4,6-Dinitro-2-methylphenol	ND	170	
101-55-3	4-Bromophenyl-phenylether	ND	83	
59-50-7	4-Chloro-3-methylphenol	ND	83	
106-47-8	4-Chloroaniline	ND	83	
7005-72-3	4-Chlorophenyl-phenylether	ND	83	
100-01-6	4-Nitroaniline	ND	83	
100-02-7	4-Nitrophenol	ND	83	
56-57-5	4-nitroquinoline-1-oxide	ND	332	
83-32-9	Acenaphthene	ND	83	
208-96-8	Acenaphthylene	ND	83	
98-86-2	Acetophenone	ND	83	
62-53-3	Aniline	ND	83	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	100%
Dry Weight Extracted:	30.113 grams	Extract Dilution:	1
Wet Weight Extracted:	30.135 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	83	
140-57-8	Aramite	ND	83	
103-33-3	Azobenzene	ND	83	
92-87-5	Benzidine	ND	83	
56-55-3	Benzo(a)anthracene	ND	83	
50-32-8	Benzo(a)pyrene	ND	83	
205-99-2	Benzo(b)fluoranthene	ND	83	
191-24-2	Benzo(g,h,i)perylene	ND	83	
207-08-9	Benzo(k)fluoranthene	ND	83	
65-85-0	Benzoic acid	ND	170	
100-51-6	Benzyl alcohol	ND	83	
111-44-4	Bis(2-Chloroethyl)ether	ND	83	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	83	
85-68-7	Butylbenzylphthalate	ND	83	
86-74-8	Carbazole	ND	83	
510-15-6	Chlorobenzilate	ND	83	
218-01-9	Chrysene	ND	83	
84-74-2	Di-n-butylphthalate	ND	83	
117-84-0	Di-n-octyl phthalate	ND	83	
53-70-3	Dibenz(a,h)anthracene	ND	83	
132-64-9	Dibenzofuran	ND	83	
84-66-2	Diethylphthalate	ND	83	
131-11-3	Dimethyl phthalate	ND	83	
88-85-7	Dinoseb	ND	83	
62-50-0	Ethyl methanesulfonate	ND	83	
206-44-0	Fluoranthene	ND	83	
86-73-7	Fluorene	ND	83	
118-74-1	Hexachlorobenzene	ND	83	
87-68-3	Hexachlorobutadiene	ND	83	
77-47-4	Hexachlorocyclopentadiene	ND	83	
67-72-1	Hexachloroethane	ND	83	
1888-71-7	Hexachloropropene	ND	83	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	83	
465-73-6	Isodrin	ND	83	
78-59-1	Isophorone	ND	83	
120-58-1	Isosafrole	ND	83	
143-50-0	Kepone	ND	83	
66-27-3	Methyl methanesulfonate	ND	83	
86-30-6	N-Nitrosodiphenylamine	ND	83	
621-64-7	N-nitroso-di-n-propylamine	ND	83	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	100%
Dry Weight Extracted:	30.113 grams	Extract Dilution:	1
Wet Weight Extracted:	30.135 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	83	
91-20-3	Naphthalene	ND	83	
98-95-3	Nitrobenzene	ND	83	
608-93-5	Pentachlorobenzene	ND	83	
82-68-8	Pentachloronitrobenzene	ND	83	
87-86-5	Pentachlorophenol	ND	83	
62-44-2	Phenacetin	ND	83	
85-01-8	Phenanthrene	ND	83	
108-95-2	Phenol	ND	83	
129-00-0	Pyrene	ND	83	
110-86-1	Pyridine	ND	83	
94-59-7	Safrole	ND	83	
111-91-1	bis(-2-Chloroethoxy)methane	ND	83	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	55	22 - 97
Phenol-d6 (SS2)	54	23 - 99
Nitrobenzene-d5 (SS3)	46	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	43	12 - 127
p-Terphenyl-d14 (SS6)	62	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-09_0-.3	Lab Sample ID:	AB34173
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	23.517 grams	Extract Dilution:	1
Wet Weight Extracted:	30.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-09_0-.3	Lab Sample ID:	AB34173
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	23.517 grams	Extract Dilution:	1
Wet Weight Extracted:	30.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-09_0-.3	Lab Sample ID:	AB34173
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	23.517 grams	Extract Dilution:	1
Wet Weight Extracted:	30.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	75	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-10_0-.3	Lab Sample ID:	AB34174
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	23.699 grams	Extract Dilution:	1
Wet Weight Extracted:	30.043 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	420	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-10_0-.3	Lab Sample ID:	AB34174
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	23.699 grams	Extract Dilution:	1
Wet Weight Extracted:	30.043 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-10_0-.3	Lab Sample ID:	AB34174
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	23.699 grams	Extract Dilution:	1
Wet Weight Extracted:	30.043 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-11_0-.3	Lab Sample ID:	AB34175
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/11/12	Percent Solids:	42%
Dry Weight Extracted:	12.678 grams	Extract Dilution:	5
Wet Weight Extracted:	30.057 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	990	
120-82-1	1,2,4-Trichlorobenzene	ND	990	
95-50-1	1,2-Dichlorobenzene	ND	990	
541-73-1	1,3-Dichlorobenzene	ND	990	
99-65-0	1,3-Dinitrobenzene	ND	990	
106-46-7	1,4-Dichlorobenzene	ND	990	
130-15-4	1,4-Naphthoquinone	ND	990	
90-12-0	1-Methylnaphthalene	ND	990	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	990	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	990	
95-95-4	2,4,5-Trichlorophenol	ND	990	
88-06-2	2,4,6-Trichlorophenol	ND	990	
120-83-2	2,4-Dichlorophenol	ND	990	
51-28-5	2,4-Dinitrophenol	ND	2000	
121-14-2	2,4-Dinitrotoluene	ND	990	
105-67-9	2,4-dimethylphenol	ND	990	
87-65-0	2,6-Dichlorophenol	ND	990	
606-20-2	2,6-Dinitrotoluene	ND	990	
91-58-7	2-Chloronaphthalene	ND	990	
95-57-8	2-Chlorophenol	ND	990	
91-57-6	2-Methylnaphthalene	ND	990	
95-48-7	2-Methylphenol	ND	990	
88-74-4	2-Nitroaniline	ND	990	
88-75-5	2-Nitrophenol	ND	990	
108-39-4/106-44-	3&4-Methylphenol	ND	2000	
91-94-1	3,3'-Dichlorobenzidine	ND	990	
56-49-5	3-Methylcholanthrene	ND	990	
99-09-2	3-Nitroaniline	ND	990	
534-52-1	4,6-Dinitro-2-methylphenol	ND	2000	
101-55-3	4-Bromophenyl-phenylether	ND	990	
59-50-7	4-Chloro-3-methylphenol	ND	990	
106-47-8	4-Chloroaniline	ND	990	
7005-72-3	4-Chlorophenyl-phenylether	ND	990	
100-01-6	4-Nitroaniline	ND	990	
100-02-7	4-Nitrophenol	ND	990	
56-57-5	4-nitroquinoline-1-oxide	ND	3900	
83-32-9	Acenaphthene	ND	990	
208-96-8	Acenaphthylene	ND	990	
98-86-2	Acetophenone	ND	990	
62-53-3	Aniline	ND	990	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-11_0-.3	Lab Sample ID:	AB34175
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/11/12	Percent Solids:	42%
Dry Weight Extracted:	12.678 grams	Extract Dilution:	5
Wet Weight Extracted:	30.057 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	990	
140-57-8	Aramite	ND	990	
103-33-3	Azobenzene	ND	990	
92-87-5	Benzidine	ND	990	
56-55-3	Benzo(a)anthracene	ND	990	
50-32-8	Benzo(a)pyrene	ND	990	
205-99-2	Benzo(b)fluoranthene	ND	990	
191-24-2	Benzo(g,h,i)perylene	ND	990	
207-08-9	Benzo(k)fluoranthene	ND	990	
65-85-0	Benzoic acid	ND	2000	
100-51-6	Benzyl alcohol	ND	990	
111-44-4	Bis(2-Chloroethyl)ether	ND	990	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	990	
85-68-7	Butylbenzylphthalate	ND	990	
86-74-8	Carbazole	ND	990	
510-15-6	Chlorobenzilate	ND	990	
218-01-9	Chrysene	ND	990	
84-74-2	Di-n-butylphthalate	ND	990	
117-84-0	Di-n-octyl phthalate	ND	990	
53-70-3	Dibenz(a,h)anthracene	ND	990	
132-64-9	Dibenzofuran	ND	990	
84-66-2	Diethylphthalate	ND	990	
131-11-3	Dimethyl phthalate	ND	990	
88-85-7	Dinoseb	ND	990	
62-50-0	Ethyl methanesulfonate	ND	990	
206-44-0	Fluoranthene	ND	990	
86-73-7	Fluorene	ND	990	
118-74-1	Hexachlorobenzene	ND	990	
87-68-3	Hexachlorobutadiene	ND	990	
77-47-4	Hexachlorocyclopentadiene	ND	990	
67-72-1	Hexachloroethane	ND	990	
1888-71-7	Hexachloropropene	ND	990	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	990	
465-73-6	Isodrin	ND	990	
78-59-1	Isophorone	ND	990	
120-58-1	Isosafrole	ND	990	
143-50-0	Kepone	ND	990	
66-27-3	Methyl methanesulfonate	ND	990	
86-30-6	N-Nitrosodiphenylamine	ND	990	
621-64-7	N-nitroso-di-n-propylamine	ND	990	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-11_0-.3	Lab Sample ID:	AB34175
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/11/12	Percent Solids:	42%
Dry Weight Extracted:	12.678 grams	Extract Dilution:	5
Wet Weight Extracted:	30.057 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	990	
91-20-3	Naphthalene	ND	990	
98-95-3	Nitrobenzene	ND	990	
608-93-5	Pentachlorobenzene	ND	990	
82-68-8	Pentachloronitrobenzene	ND	990	
87-86-5	Pentachlorophenol	ND	990	
62-44-2	Phenacetin	ND	990	
85-01-8	Phenanthrene	ND	990	
108-95-2	Phenol	ND	990	
129-00-0	Pyrene	ND	990	
110-86-1	Pyridine	ND	990	
94-59-7	Safrole	ND	990	
111-91-1	bis(-2-Chloroethoxy)methane	ND	990	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	24	22 - 97
Phenol-d6 (SS2)	28	23 - 99
Nitrobenzene-d5 (SS3)	32	20 - 98
2-Fluorobiphenyl (SS4)	31	23 - 104
2,4,6-Tribromophenol (SS5)	29	12 - 127
p-Terphenyl-d14 (SS6)	24	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

The extract for this sample was viscous. The sample was inject twice with no dilution and had each injection had low internal standard recoveries, it appeared as if the sample was too thick to draw into the syringe.

the sample was diluted 5x; the results of the diluted sample were reported.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-12_0-.3	Lab Sample ID:	AB34176
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	41%
Dry Weight Extracted:	12.309 grams	Extract Dilution:	1
Wet Weight Extracted:	29.938 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	390	
120-82-1	1,2,4-Trichlorobenzene	ND	390	
95-50-1	1,2-Dichlorobenzene	ND	390	
541-73-1	1,3-Dichlorobenzene	ND	390	
99-65-0	1,3-Dinitrobenzene	ND	390	
106-46-7	1,4-Dichlorobenzene	ND	390	
130-15-4	1,4-Naphthoquinone	ND	390	
90-12-0	1-Methylnaphthalene	ND	390	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	390	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	390	
95-95-4	2,4,5-Trichlorophenol	ND	390	
88-06-2	2,4,6-Trichlorophenol	ND	390	
120-83-2	2,4-Dichlorophenol	ND	390	
51-28-5	2,4-Dinitrophenol	ND	790	
121-14-2	2,4-Dinitrotoluene	ND	390	
105-67-9	2,4-dimethylphenol	ND	390	
87-65-0	2,6-Dichlorophenol	ND	390	
606-20-2	2,6-Dinitrotoluene	ND	390	
91-58-7	2-Chloronaphthalene	ND	390	
95-57-8	2-Chlorophenol	ND	390	
91-57-6	2-Methylnaphthalene	ND	390	
95-48-7	2-Methylphenol	ND	390	
88-74-4	2-Nitroaniline	ND	390	
88-75-5	2-Nitrophenol	ND	390	
108-39-4/106-44-	3&4-Methylphenol	ND	790	
91-94-1	3,3'-Dichlorobenzidine	ND	390	
56-49-5	3-Methylcholanthrene	ND	390	
99-09-2	3-Nitroaniline	ND	390	
534-52-1	4,6-Dinitro-2-methylphenol	ND	790	
101-55-3	4-Bromophenyl-phenylether	ND	390	
59-50-7	4-Chloro-3-methylphenol	ND	390	
106-47-8	4-Chloroaniline	ND	390	
7005-72-3	4-Chlorophenyl-phenylether	ND	390	
100-01-6	4-Nitroaniline	ND	390	
100-02-7	4-Nitrophenol	ND	390	
56-57-5	4-nitroquinoline-1-oxide	ND	1600	
83-32-9	Acenaphthene	ND	390	
208-96-8	Acenaphthylene	ND	390	
98-86-2	Acetophenone	ND	390	
62-53-3	Aniline	ND	390	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-12_0-.3	Lab Sample ID:	AB34176
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	41%
Dry Weight Extracted:	12.309 grams	Extract Dilution:	1
Wet Weight Extracted:	29.938 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	390	
140-57-8	Aramite	ND	390	
103-33-3	Azobenzene	ND	390	
92-87-5	Benzidine	ND	390	
56-55-3	Benzo(a)anthracene	ND	390	
50-32-8	Benzo(a)pyrene	ND	390	
205-99-2	Benzo(b)fluoranthene	**600**	390	
191-24-2	Benzo(g,h,i)perylene	ND	390	
207-08-9	Benzo(k)fluoranthene	ND	390	
65-85-0	Benzoic acid	**1000**	790	
100-51-6	Benzyl alcohol	ND	390	
111-44-4	Bis(2-Chloroethyl)ether	ND	390	
117-81-7	Bis(2-ethylhexyl)phthalate	**820**	390	
85-68-7	Butylbenzylphthalate	ND	390	
86-74-8	Carbazole	ND	390	
510-15-6	Chlorobenzilate	ND	390	
218-01-9	Chrysene	**480**	390	
84-74-2	Di-n-butylphthalate	ND	390	
117-84-0	Di-n-octyl phthalate	ND	390	
53-70-3	Dibenz(a,h)anthracene	ND	390	
132-64-9	Dibenzofuran	ND	390	
84-66-2	Diethylphthalate	ND	390	
131-11-3	Dimethyl phthalate	ND	390	
88-85-7	Dinoseb	ND	390	
62-50-0	Ethyl methanesulfonate	ND	390	
206-44-0	Fluoranthene	**750**	390	
86-73-7	Fluorene	ND	390	
118-74-1	Hexachlorobenzene	ND	390	
87-68-3	Hexachlorobutadiene	ND	390	
77-47-4	Hexachlorocyclopentadiene	ND	390	
67-72-1	Hexachloroethane	ND	390	
1888-71-7	Hexachloropropene	ND	390	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	390	
465-73-6	Isodrin	ND	390	
78-59-1	Isophorone	ND	390	
120-58-1	Isosafrole	ND	390	
143-50-0	Kepone	ND	390	
66-27-3	Methyl methanesulfonate	ND	390	
86-30-6	N-Nitrosodiphenylamine	ND	390	
621-64-7	N-nitroso-di-n-propylamine	ND	390	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-12_0-.3	Lab Sample ID:	AB34176
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	41%
Dry Weight Extracted:	12.309 grams	Extract Dilution:	1
Wet Weight Extracted:	29.938 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	390	
91-20-3	Naphthalene	ND	390	
98-95-3	Nitrobenzene	ND	390	
608-93-5	Pentachlorobenzene	ND	390	
82-68-8	Pentachloronitrobenzene	ND	390	
87-86-5	Pentachlorophenol	ND	390	
62-44-2	Phenacetin	ND	390	
85-01-8	Phenanthrene	**470**	390	
108-95-2	Phenol	ND	390	
129-00-0	Pyrene	**690**	390	
110-86-1	Pyridine	ND	390	
94-59-7	Safrole	ND	390	
111-91-1	bis(-2-Chloroethoxy)methane	ND	390	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	41	22 - 97
Phenol-d6 (SS2)	55	23 - 99
Nitrobenzene-d5 (SS3)	49	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	48	12 - 127
p-Terphenyl-d14 (SS6)	66	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

The sample exract would not concentrate to 1.0 mL.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-13_0-.3	Lab Sample ID:	AB34177
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	49%
Dry Weight Extracted:	14.68 grams	Extract Dilution:	1
Wet Weight Extracted:	29.951 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	
120-82-1	1,2,4-Trichlorobenzene	ND	170	
95-50-1	1,2-Dichlorobenzene	ND	170	
541-73-1	1,3-Dichlorobenzene	ND	170	
99-65-0	1,3-Dinitrobenzene	ND	170	
106-46-7	1,4-Dichlorobenzene	ND	170	
130-15-4	1,4-Naphthoquinone	ND	170	
90-12-0	1-Methylnaphthalene	ND	170	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	170	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	
95-95-4	2,4,5-Trichlorophenol	ND	170	
88-06-2	2,4,6-Trichlorophenol	ND	170	
120-83-2	2,4-Dichlorophenol	ND	170	
51-28-5	2,4-Dinitrophenol	ND	340	
121-14-2	2,4-Dinitrotoluene	ND	170	
105-67-9	2,4-dimethylphenol	ND	170	
87-65-0	2,6-Dichlorophenol	ND	170	
606-20-2	2,6-Dinitrotoluene	ND	170	
91-58-7	2-Chloronaphthalene	ND	170	
95-57-8	2-Chlorophenol	ND	170	
91-57-6	2-Methylnaphthalene	ND	170	
95-48-7	2-Methylphenol	ND	170	
88-74-4	2-Nitroaniline	ND	170	
88-75-5	2-Nitrophenol	ND	170	
108-39-4/106-44-	3&4-Methylphenol	ND	340	
91-94-1	3,3'-Dichlorobenzidine	ND	170	
56-49-5	3-Methylcholanthrene	ND	170	
99-09-2	3-Nitroaniline	ND	170	
534-52-1	4,6-Dinitro-2-methylphenol	ND	340	
101-55-3	4-Bromophenyl-phenylether	ND	170	
59-50-7	4-Chloro-3-methylphenol	ND	170	
106-47-8	4-Chloroaniline	ND	170	
7005-72-3	4-Chlorophenyl-phenylether	ND	170	
100-01-6	4-Nitroaniline	ND	170	
100-02-7	4-Nitrophenol	ND	170	
56-57-5	4-nitroquinoline-1-oxide	ND	680	
83-32-9	Acenaphthene	ND	170	
208-96-8	Acenaphthylene	ND	170	
98-86-2	Acetophenone	ND	170	
62-53-3	Aniline	ND	170	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-13_0-.3	Lab Sample ID:	AB34177
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	49%
Dry Weight Extracted:	14.68 grams	Extract Dilution:	1
Wet Weight Extracted:	29.951 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	170	
140-57-8	Aramite	ND	170	
103-33-3	Azobenzene	ND	170	
92-87-5	Benzidine	ND	170	
56-55-3	Benzo(a)anthracene	ND	170	
50-32-8	Benzo(a)pyrene	ND	170	
205-99-2	Benzo(b)fluoranthene	ND	170	
191-24-2	Benzo(g,h,i)perylene	ND	170	
207-08-9	Benzo(k)fluoranthene	ND	170	
65-85-0	Benzoic acid	**450**	340	
100-51-6	Benzyl alcohol	ND	170	
111-44-4	Bis(2-Chloroethyl)ether	ND	170	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	
85-68-7	Butylbenzylphthalate	ND	170	
86-74-8	Carbazole	ND	170	
510-15-6	Chlorobenzilate	ND	170	
218-01-9	Chrysene	ND	170	
84-74-2	Di-n-butylphthalate	ND	170	
117-84-0	Di-n-octyl phthalate	ND	170	
53-70-3	Dibenz(a,h)anthracene	ND	170	
132-64-9	Dibenzofuran	ND	170	
84-66-2	Diethylphthalate	ND	170	
131-11-3	Dimethyl phthalate	ND	170	
88-85-7	Dinoseb	ND	170	
62-50-0	Ethyl methanesulfonate	ND	170	
206-44-0	Fluoranthene	**190**	170	
86-73-7	Fluorene	ND	170	
118-74-1	Hexachlorobenzene	ND	170	
87-68-3	Hexachlorobutadiene	ND	170	
77-47-4	Hexachlorocyclopentadiene	ND	170	
67-72-1	Hexachloroethane	ND	170	
1888-71-7	Hexachloropropene	ND	170	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	
465-73-6	Isodrin	ND	170	
78-59-1	Isophorone	ND	170	
120-58-1	Isosafrole	ND	170	
143-50-0	Kepone	ND	170	
66-27-3	Methyl methanesulfonate	ND	170	
86-30-6	N-Nitrosodiphenylamine	ND	170	
621-64-7	N-nitroso-di-n-propylamine	ND	170	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-13_0-.3	Lab Sample ID:	AB34177
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	49%
Dry Weight Extracted:	14.68 grams	Extract Dilution:	1
Wet Weight Extracted:	29.951 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	170	
91-20-3	Naphthalene	ND	170	
98-95-3	Nitrobenzene	ND	170	
608-93-5	Pentachlorobenzene	ND	170	
82-68-8	Pentachloronitrobenzene	ND	170	
87-86-5	Pentachlorophenol	ND	170	
62-44-2	Phenacetin	ND	170	
85-01-8	Phenanthrene	ND	170	
108-95-2	Phenol	ND	170	
129-00-0	Pyrene	ND	170	
110-86-1	Pyridine	ND	170	
94-59-7	Safrole	ND	170	
111-91-1	bis(-2-Chloroethoxy)methane	ND	170	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	45	22 - 97
Phenol-d6 (SS2)	55	23 - 99
Nitrobenzene-d5 (SS3)	49	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	45	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-14_0-.3	Lab Sample ID:	AB34178
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	62%
Dry Weight Extracted:	18.742 grams	Extract Dilution:	1
Wet Weight Extracted:	30.151 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-65-0	1,3-Dinitrobenzene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
130-15-4	1,4-Naphthoquinone	ND	130	
90-12-0	1-Methylnaphthalene	ND	130	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	130	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	130	
95-95-4	2,4,5-Trichlorophenol	ND	130	
88-06-2	2,4,6-Trichlorophenol	ND	130	
120-83-2	2,4-Dichlorophenol	ND	130	
51-28-5	2,4-Dinitrophenol	ND	270	
121-14-2	2,4-Dinitrotoluene	ND	130	
105-67-9	2,4-dimethylphenol	ND	130	
87-65-0	2,6-Dichlorophenol	ND	130	
606-20-2	2,6-Dinitrotoluene	ND	130	
91-58-7	2-Chloronaphthalene	ND	130	
95-57-8	2-Chlorophenol	ND	130	
91-57-6	2-Methylnaphthalene	ND	130	
95-48-7	2-Methylphenol	ND	130	
88-74-4	2-Nitroaniline	ND	130	
88-75-5	2-Nitrophenol	ND	130	
108-39-4/106-44-	3&4-Methylphenol	ND	270	
91-94-1	3,3'-Dichlorobenzidine	ND	130	
56-49-5	3-Methylcholanthrene	ND	130	
99-09-2	3-Nitroaniline	ND	130	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	130	
59-50-7	4-Chloro-3-methylphenol	ND	130	
106-47-8	4-Chloroaniline	ND	130	
7005-72-3	4-Chlorophenyl-phenylether	ND	130	
100-01-6	4-Nitroaniline	ND	130	
100-02-7	4-Nitrophenol	ND	130	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	ND	130	
208-96-8	Acenaphthylene	ND	130	
98-86-2	Acetophenone	ND	130	
62-53-3	Aniline	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-14_0-.3	Lab Sample ID:	AB34178
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	62%
Dry Weight Extracted:	18.742 grams	Extract Dilution:	1
Wet Weight Extracted:	30.151 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	130	
140-57-8	Aramite	ND	130	
103-33-3	Azobenzene	ND	130	
92-87-5	Benzidine	ND	130	
56-55-3	Benzo(a)anthracene	ND	130	
50-32-8	Benzo(a)pyrene	ND	130	
205-99-2	Benzo(b)fluoranthene	ND	130	
191-24-2	Benzo(g,h,i)perylene	ND	130	
207-08-9	Benzo(k)fluoranthene	ND	130	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	130	
111-44-4	Bis(2-Chloroethyl)ether	ND	130	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	130	
85-68-7	Butylbenzylphthalate	ND	130	
86-74-8	Carbazole	ND	130	
510-15-6	Chlorobenzilate	ND	130	
218-01-9	Chrysene	ND	130	
84-74-2	Di-n-butylphthalate	ND	130	
117-84-0	Di-n-octyl phthalate	ND	130	
53-70-3	Dibenz(a,h)anthracene	ND	130	
132-64-9	Dibenzofuran	ND	130	
84-66-2	Diethylphthalate	ND	130	
131-11-3	Dimethyl phthalate	ND	130	
88-85-7	Dinoseb	ND	130	
62-50-0	Ethyl methanesulfonate	ND	130	
206-44-0	Fluoranthene	ND	130	
86-73-7	Fluorene	ND	130	
118-74-1	Hexachlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
77-47-4	Hexachlorocyclopentadiene	ND	130	
67-72-1	Hexachloroethane	ND	130	
1888-71-7	Hexachloropropene	ND	130	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	
465-73-6	Isodrin	ND	130	
78-59-1	Isophorone	ND	130	
120-58-1	Isosafrole	ND	130	
143-50-0	Kepone	ND	130	
66-27-3	Methyl methanesulfonate	ND	130	
86-30-6	N-Nitrosodiphenylamine	ND	130	
621-64-7	N-nitroso-di-n-propylamine	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-14_0-.3	Lab Sample ID:	AB34178
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	62%
Dry Weight Extracted:	18.742 grams	Extract Dilution:	1
Wet Weight Extracted:	30.151 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	130	
91-20-3	Naphthalene	ND	130	
98-95-3	Nitrobenzene	ND	130	
608-93-5	Pentachlorobenzene	ND	130	
82-68-8	Pentachloronitrobenzene	ND	130	
87-86-5	Pentachlorophenol	ND	130	
62-44-2	Phenacetin	ND	130	
85-01-8	Phenanthrene	ND	130	
108-95-2	Phenol	ND	130	
129-00-0	Pyrene	ND	130	
110-86-1	Pyridine	ND	130	
94-59-7	Safrole	ND	130	
111-91-1	bis(-2-Chloroethoxy)methane	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	40	22 - 97
Phenol-d6 (SS2)	53	23 - 99
Nitrobenzene-d5 (SS3)	46	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	38	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-15_0-.3	Lab Sample ID:	AB34179
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	66%
Dry Weight Extracted:	19.897 grams	Extract Dilution:	1
Wet Weight Extracted:	30.01 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-65-0	1,3-Dinitrobenzene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
130-15-4	1,4-Naphthoquinone	ND	130	
90-12-0	1-Methylnaphthalene	ND	130	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	130	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	130	
95-95-4	2,4,5-Trichlorophenol	ND	130	
88-06-2	2,4,6-Trichlorophenol	ND	130	
120-83-2	2,4-Dichlorophenol	ND	130	
51-28-5	2,4-Dinitrophenol	ND	250	
121-14-2	2,4-Dinitrotoluene	ND	130	
105-67-9	2,4-dimethylphenol	ND	130	
87-65-0	2,6-Dichlorophenol	ND	130	
606-20-2	2,6-Dinitrotoluene	ND	130	
91-58-7	2-Chloronaphthalene	ND	130	
95-57-8	2-Chlorophenol	ND	130	
91-57-6	2-Methylnaphthalene	ND	130	
95-48-7	2-Methylphenol	ND	130	
88-74-4	2-Nitroaniline	ND	130	
88-75-5	2-Nitrophenol	ND	130	
108-39-4/106-44-	3&4-Methylphenol	ND	250	
91-94-1	3,3'-Dichlorobenzidine	ND	130	
56-49-5	3-Methylcholanthrene	ND	130	
99-09-2	3-Nitroaniline	ND	130	
534-52-1	4,6-Dinitro-2-methylphenol	ND	250	
101-55-3	4-Bromophenyl-phenylether	ND	130	
59-50-7	4-Chloro-3-methylphenol	ND	130	
106-47-8	4-Chloroaniline	ND	130	
7005-72-3	4-Chlorophenyl-phenylether	ND	130	
100-01-6	4-Nitroaniline	ND	130	
100-02-7	4-Nitrophenol	ND	130	
56-57-5	4-nitroquinoline-1-oxide	ND	500	
83-32-9	Acenaphthene	ND	130	
208-96-8	Acenaphthylene	ND	130	
98-86-2	Acetophenone	ND	130	
62-53-3	Aniline	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-15_0-.3	Lab Sample ID:	AB34179
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	66%
Dry Weight Extracted:	19.897 grams	Extract Dilution:	1
Wet Weight Extracted:	30.01 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	130	
140-57-8	Aramite	ND	130	
103-33-3	Azobenzene	ND	130	
92-87-5	Benzidine	ND	130	
56-55-3	Benzo(a)anthracene	**260**	130	
50-32-8	Benzo(a)pyrene	**290**	130	
205-99-2	Benzo(b)fluoranthene	**500**	130	
191-24-2	Benzo(g,h,i)perylene	**240**	130	
207-08-9	Benzo(k)fluoranthene	**200**	130	
65-85-0	Benzoic acid	**320**	250	
100-51-6	Benzyl alcohol	ND	130	
111-44-4	Bis(2-Chloroethyl)ether	ND	130	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	130	
85-68-7	Butylbenzylphthalate	ND	130	
86-74-8	Carbazole	ND	130	
510-15-6	Chlorobenzilate	ND	130	
218-01-9	Chrysene	**400**	130	
84-74-2	Di-n-butylphthalate	ND	130	
117-84-0	Di-n-octyl phthalate	ND	130	
53-70-3	Dibenz(a,h)anthracene	ND	130	
132-64-9	Dibenzofuran	ND	130	
84-66-2	Diethylphthalate	ND	130	
131-11-3	Dimethyl phthalate	ND	130	
88-85-7	Dinoseb	ND	130	
62-50-0	Ethyl methanesulfonate	ND	130	
206-44-0	Fluoranthene	**690**	130	
86-73-7	Fluorene	ND	130	
118-74-1	Hexachlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
77-47-4	Hexachlorocyclopentadiene	ND	130	
67-72-1	Hexachloroethane	ND	130	
1888-71-7	Hexachloropropene	ND	130	
193-39-5	Indeno(1,2,3-cd)pyrene	**200**	130	
465-73-6	Isodrin	ND	130	
78-59-1	Isophorone	ND	130	
120-58-1	Isosafrole	ND	130	
143-50-0	Kepone	ND	130	
66-27-3	Methyl methanesulfonate	ND	130	
86-30-6	N-Nitrosodiphenylamine	ND	130	
621-64-7	N-nitroso-di-n-propylamine	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-15_0-.3	Lab Sample ID:	AB34179
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	66%
Dry Weight Extracted:	19.897 grams	Extract Dilution:	1
Wet Weight Extracted:	30.01 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	130	
91-20-3	Naphthalene	ND	130	
98-95-3	Nitrobenzene	ND	130	
608-93-5	Pentachlorobenzene	ND	130	
82-68-8	Pentachloronitrobenzene	ND	130	
87-86-5	Pentachlorophenol	ND	130	
62-44-2	Phenacetin	ND	130	
85-01-8	Phenanthrene	**320**	130	
108-95-2	Phenol	ND	130	
129-00-0	Pyrene	**570**	130	
110-86-1	Pyridine	ND	130	
94-59-7	Safrole	ND	130	
111-91-1	bis(-2-Chloroethoxy)methane	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	15	22 - 97
Phenol-d6 (SS2)	33	23 - 99
Nitrobenzene-d5 (SS3)	48	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	20	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	1,500	ppb	J

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-16_0-.3	Lab Sample ID:	AB34180
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	22.98 grams	Extract Dilution:	1
Wet Weight Extracted:	29.924 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	440	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-16_0-.3	Lab Sample ID:	AB34180
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	22.98 grams	Extract Dilution:	1
Wet Weight Extracted:	29.924 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	**190**	110	
50-32-8	Benzo(a)pyrene	**180**	110	
205-99-2	Benzo(b)fluoranthene	**280**	110	
191-24-2	Benzo(g,h,i)perylene	**140**	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	**270**	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	**250**	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	110	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**430**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	**110**	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SED-16_0-.3	Lab Sample ID:	AB34180
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	22.98 grams	Extract Dilution:	1
Wet Weight Extracted:	29.924 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	**230**	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**370**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	70	22 - 97
Phenol-d6 (SS2)	70	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	OW-211	Lab Sample ID:	AB34181
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	55%
Dry Weight Extracted:	16.523 grams	Extract Dilution:	1
Wet Weight Extracted:	30.136 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	
120-82-1	1,2,4-Trichlorobenzene	ND	150	
95-50-1	1,2-Dichlorobenzene	ND	150	
541-73-1	1,3-Dichlorobenzene	ND	150	
99-65-0	1,3-Dinitrobenzene	ND	150	
106-46-7	1,4-Dichlorobenzene	ND	150	
130-15-4	1,4-Naphthoquinone	ND	150	
90-12-0	1-Methylnaphthalene	ND	150	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	150	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	
95-95-4	2,4,5-Trichlorophenol	ND	150	
88-06-2	2,4,6-Trichlorophenol	ND	150	
120-83-2	2,4-Dichlorophenol	ND	150	
51-28-5	2,4-Dinitrophenol	ND	300	
121-14-2	2,4-Dinitrotoluene	ND	150	
105-67-9	2,4-dimethylphenol	ND	150	
87-65-0	2,6-Dichlorophenol	ND	150	
606-20-2	2,6-Dinitrotoluene	ND	150	
91-58-7	2-Chloronaphthalene	ND	150	
95-57-8	2-Chlorophenol	ND	150	
91-57-6	2-Methylnaphthalene	ND	150	
95-48-7	2-Methylphenol	ND	150	
88-74-4	2-Nitroaniline	ND	150	
88-75-5	2-Nitrophenol	ND	150	
108-39-4/106-44-	3&4-Methylphenol	ND	300	
91-94-1	3,3'-Dichlorobenzidine	ND	150	
56-49-5	3-Methylcholanthrene	ND	150	
99-09-2	3-Nitroaniline	ND	150	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	150	
59-50-7	4-Chloro-3-methylphenol	ND	150	
106-47-8	4-Chloroaniline	ND	150	
7005-72-3	4-Chlorophenyl-phenylether	ND	150	
100-01-6	4-Nitroaniline	ND	150	
100-02-7	4-Nitrophenol	ND	150	
56-57-5	4-nitroquinoline-1-oxide	ND	610	
83-32-9	Acenaphthene	ND	150	
208-96-8	Acenaphthylene	ND	150	
98-86-2	Acetophenone	ND	150	
62-53-3	Aniline	ND	150	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	OW-211	Lab Sample ID:	AB34181
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	55%
Dry Weight Extracted:	16.523 grams	Extract Dilution:	1
Wet Weight Extracted:	30.136 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	150	
140-57-8	Aramite	ND	150	
103-33-3	Azobenzene	ND	150	
92-87-5	Benzidine	ND	150	
56-55-3	Benzo(a)anthracene	ND	150	
50-32-8	Benzo(a)pyrene	ND	150	
205-99-2	Benzo(b)fluoranthene	ND	150	
191-24-2	Benzo(g,h,i)perylene	ND	150	
207-08-9	Benzo(k)fluoranthene	ND	150	
65-85-0	Benzoic acid	**410**	300	
100-51-6	Benzyl alcohol	ND	150	
111-44-4	Bis(2-Chloroethyl)ether	ND	150	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	150	
85-68-7	Butylbenzylphthalate	ND	150	
86-74-8	Carbazole	ND	150	
510-15-6	Chlorobenzilate	ND	150	
218-01-9	Chrysene	ND	150	
84-74-2	Di-n-butylphthalate	ND	150	
117-84-0	Di-n-octyl phthalate	ND	150	
53-70-3	Dibenz(a,h)anthracene	ND	150	
132-64-9	Dibenzofuran	ND	150	
84-66-2	Diethylphthalate	ND	150	
131-11-3	Dimethyl phthalate	ND	150	
88-85-7	Dinoseb	ND	150	
62-50-0	Ethyl methanesulfonate	ND	150	
206-44-0	Fluoranthene	**170**	150	
86-73-7	Fluorene	ND	150	
118-74-1	Hexachlorobenzene	ND	150	
87-68-3	Hexachlorobutadiene	ND	150	
77-47-4	Hexachlorocyclopentadiene	ND	150	
67-72-1	Hexachloroethane	ND	150	
1888-71-7	Hexachloropropene	ND	150	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	150	
465-73-6	Isodrin	ND	150	
78-59-1	Isophorone	ND	150	
120-58-1	Isosafrole	ND	150	
143-50-0	Kepone	ND	150	
66-27-3	Methyl methanesulfonate	ND	150	
86-30-6	N-Nitrosodiphenylamine	ND	150	
621-64-7	N-nitroso-di-n-propylamine	ND	150	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	OW-211	Lab Sample ID:	AB34181
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	55%
Dry Weight Extracted:	16.523 grams	Extract Dilution:	1
Wet Weight Extracted:	30.136 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	150	
91-20-3	Naphthalene	ND	150	
98-95-3	Nitrobenzene	ND	150	
608-93-5	Pentachlorobenzene	ND	150	
82-68-8	Pentachloronitrobenzene	ND	150	
87-86-5	Pentachlorophenol	ND	150	
62-44-2	Phenacetin	ND	150	
85-01-8	Phenanthrene	ND	150	
108-95-2	Phenol	ND	150	
129-00-0	Pyrene	**150**	150	
110-86-1	Pyridine	ND	150	
94-59-7	Safrole	ND	150	
111-91-1	bis(-2-Chloroethoxy)methane	ND	150	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	40	22 - 97
Phenol-d6 (SS2)	50	23 - 99
Nitrobenzene-d5 (SS3)	49	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	40	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	SS2131	Lab Sample ID:	AB34185
Date of Collection:	10/9/2012	Matrix	PE
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	100%
Dry Weight Extracted:	30.257 grams	Extract Dilution:	1
Wet Weight Extracted:	30.257 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	**290**	83	
120-82-1	1,2,4-Trichlorobenzene	ND	83	
95-50-1	1,2-Dichlorobenzene	ND	83	
541-73-1	1,3-Dichlorobenzene	ND	83	
99-65-0	1,3-Dinitrobenzene	ND	83	
106-46-7	1,4-Dichlorobenzene	ND	83	
130-15-4	1,4-Naphthoquinone	ND	83	
90-12-0	1-Methylnaphthalene	**590**	83	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	83	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	83	
95-95-4	2,4,5-Trichlorophenol	ND	83	
88-06-2	2,4,6-Trichlorophenol	**710**	83	
120-83-2	2,4-Dichlorophenol	ND	83	
51-28-5	2,4-Dinitrophenol	ND	170	
121-14-2	2,4-Dinitrotoluene	ND	83	
105-67-9	2,4-dimethylphenol	**100**	83	
87-65-0	2,6-Dichlorophenol	ND	83	
606-20-2	2,6-Dinitrotoluene	**570**	83	
91-58-7	2-Chloronaphthalene	ND	83	
95-57-8	2-Chlorophenol	**270**	83	
91-57-6	2-Methylnaphthalene	ND	83	
95-48-7	2-Methylphenol	**340**	83	
88-74-4	2-Nitroaniline	ND	83	
88-75-5	2-Nitrophenol	**1500**	83	
108-39-4/106-44-	3&4-Methylphenol	**390**	170	
91-94-1	3,3'-Dichlorobenzidine	ND	83	
56-49-5	3-Methylcholanthrene	ND	83	
99-09-2	3-Nitroaniline	ND	83	
534-52-1	4,6-Dinitro-2-methylphenol	**610**	170	
101-55-3	4-Bromophenyl-phenylether	ND	83	
59-50-7	4-Chloro-3-methylphenol	**850**	83	
106-47-8	4-Chloroaniline	ND	83	
7005-72-3	4-Chlorophenyl-phenylether	ND	83	
100-01-6	4-Nitroaniline	ND	83	
100-02-7	4-Nitrophenol	**1400**	83	
56-57-5	4-nitroquinoline-1-oxide	ND	330	
83-32-9	Acenaphthene	ND	83	
208-96-8	Acenaphthylene	ND	83	
98-86-2	Acetophenone	ND	83	
62-53-3	Aniline	ND	83	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	SS2131	Lab Sample ID:	AB34185
Date of Collection:	10/9/2012	Matrix	PE
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	100%
Dry Weight Extracted:	30.257 grams	Extract Dilution:	1
Wet Weight Extracted:	30.257 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**430**	83	
140-57-8	Aramite	ND	83	
103-33-3	Azobenzene	ND	83	
92-87-5	Benzidine	ND	83	
56-55-3	Benzo(a)anthracene	ND	83	
50-32-8	Benzo(a)pyrene	**670**	83	
205-99-2	Benzo(b)fluoranthene	ND	83	
191-24-2	Benzo(g,h,i)perylene	ND	83	
207-08-9	Benzo(k)fluoranthene	ND	83	
65-85-0	Benzoic acid	ND	170	
100-51-6	Benzyl alcohol	ND	83	
111-44-4	Bis(2-Chloroethyl)ether	ND	83	
117-81-7	Bis(2-ethylhexyl)phthalate	**780**	83	
85-68-7	Butylbenzylphthalate	ND	83	
86-74-8	Carbazole	ND	83	
510-15-6	Chlorobenzilate	ND	83	
218-01-9	Chrysene	**780**	83	
84-74-2	Di-n-butylphthalate	**590**	83	
117-84-0	Di-n-octyl phthalate	ND	83	
53-70-3	Dibenz(a,h)anthracene	ND	83	
132-64-9	Dibenzofuran	**400**	83	
84-66-2	Diethylphthalate	ND	83	
131-11-3	Dimethyl phthalate	**1000**	83	
88-85-7	Dinoseb	ND	83	
62-50-0	Ethyl methanesulfonate	ND	83	
206-44-0	Fluoranthene	**860**	83	
86-73-7	Fluorene	ND	83	
118-74-1	Hexachlorobenzene	**360**	83	
87-68-3	Hexachlorobutadiene	**690**	83	
77-47-4	Hexachlorocyclopentadiene	ND	83	
67-72-1	Hexachloroethane	ND	83	
1888-71-7	Hexachloropropene	ND	83	
193-39-5	Indeno(1,2,3-cd)pyrene	**750**	83	
465-73-6	Isodrin	ND	83	
78-59-1	Isophorone	ND	83	
120-58-1	Isosafrole	ND	83	
143-50-0	Kepone	ND	83	
66-27-3	Methyl methanesulfonate	ND	83	
86-30-6	N-Nitrosodiphenylamine	**110**	83	
621-64-7	N-nitroso-di-n-propylamine	ND	83	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	SS2131	Lab Sample ID:	AB34185
Date of Collection:	10/9/2012	Matrix	PE
Date of Extraction:	10/9/12	Amount Prepared	N/A
Date of Analysis:	10/10/12	Percent Solids:	100%
Dry Weight Extracted:	30.257 grams	Extract Dilution:	1
Wet Weight Extracted:	30.257 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	83	
91-20-3	Naphthalene	**260**	83	
98-95-3	Nitrobenzene	ND	83	
608-93-5	Pentachlorobenzene	ND	83	
82-68-8	Pentachloronitrobenzene	ND	83	
87-86-5	Pentachlorophenol	**800**	83	
62-44-2	Phenacetin	ND	83	
85-01-8	Phenanthrene	**1100**	83	
108-95-2	Phenol	ND	83	
129-00-0	Pyrene	**860**	83	
110-86-1	Pyridine	ND	83	
94-59-7	Safrole	ND	83	
111-91-1	bis(-2-Chloroethoxy)methane	ND	83	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	85	22 - 97
Phenol-d6 (SS2)	80	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	93	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments: The reporting level for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, dinoseb, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

MATRIX SPIKE (MS)

Mohawk Tannery - Nashua, NH

Sample ID: AB34173

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	1,701	ND	1300	76	47 - 97
1,2,4-Trichlorobenzene	1,701	ND	1300	76	46 - 95
1,2-Dichlorobenzene	1,701	ND	1100	65	42 - 90
1,3-Dichlorobenzene	1,701	ND	1000	59	41 - 86
1,3-Dinitrobenzene	1,701	ND	1400	82	36 - 117
1,4-Dichlorobenzene	1,701	ND	1100	65	41 - 86
1,4-Naphthoquinone	1,701	ND	910	54	10 - 123
1-Methylnaphthalene	1,701	ND	1300	76	49 - 99
2,2'-oxybis(1-chloropropane)	1,701	ND	950	56	35 - 117
2,3,4,6-Tetrachlorophenol	1,701	ND	1400	82	7.7 - 168
2,4,5-Trichlorophenol	1,701	ND	1400	82	54 - 103
2,4,6-Trichlorophenol	1,701	ND	1400	82	33 - 119
2,4-Dichlorophenol	1,701	ND	1300	76	42 - 107
2,4-Dinitrophenol	1,701	ND	680	40	10 - 114
2,4-Dinitrotoluene	1,701	ND	1400	82	29 - 129
2,4-dimethylphenol	1,701	ND	1300	76	35 - 105
2,6-Dichlorophenol	1,701	ND	1300	76	28 - 114
2,6-Dinitrotoluene	1,701	ND	1400	82	57 - 105
2-Chloronaphthalene	1,701	ND	1300	76	45 - 108
2-Chlorophenol	1,701	ND	1200	71	41 - 102
2-Methylnaphthalene	1,701	ND	1200	71	43 - 101
2-Methylphenol	1,701	ND	1200	71	45 - 102
2-Nitroaniline	1,701	ND	1100	65	40 - 142
2-Nitrophenol	1,701	ND	1300	76	48 - 99
3&4-Methylphenol	3,402	ND	2500	74	10 - 154
3,3'-Dichlorobenzidine	1,701	ND	1300	76	10 - 137
3-Methylcholanthrene	1,701	ND	1400	82	25 - 123
3-Nitroaniline	1,701	ND	1200	71	30 - 114
4,6-Dinitro-2-methylphenol	1,701	ND	1000	59	10 - 115
4-Bromophenyl-phenylether	1,701	ND	1400	82	48 - 116
4-Chloro-3-methylphenol	1,701	ND	1200	71	43 - 112
4-Chloroaniline	1,701	ND	1100	65	17 - 94
4-Chlorophenyl-phenylether	1,701	ND	1400	82	52 - 103
4-Nitroaniline	1,701	ND	1300	76	17 - 117
4-Nitrophenol	1,701	ND	1200	71	17 - 141
4-nitroquinoline-1-oxide	1,701	ND	960	56	4.4 - 101
Acenaphthene	1,701	ND	1300	76	53 - 101
Acenaphthylene	1,701	ND	1300	76	56 - 99
Acetophenone	1,701	ND	1100	65	46 - 101
Aniline	1,701	ND	690	41	10 - 90
Anthracene	1,701	ND	1300	76	58 - 108
Aramite	1,701	ND	1400	82	39 - 118
Azobenzene	1,701	ND	1200	71	53 - 117
Benzidine	1,701	ND	130	8	10 - 41
Benzo(a)anthracene	1,701	ND	1400	82	50 - 112
Benzo(a)pyrene	1,701	ND	1400	82	34 - 122
Benzo(b)fluoranthene	1,701	ND	1500	88	42 - 120
Benzo(g,h,i)perylene	1,701	ND	1400	82	50 - 108

Benzo(k)fluoranthene	1,701	ND	1400	82	33 - 116
Benzoic acid	1,701	ND	280	17	10 - 168
Benzyl alcohol	1,701	ND	1200	71	18 - 131
Bis(2-Chloroethyl)ether	1,701	ND	1100	65	45 - 98
Bis(2-ethylhexyl)phthalate	1,701	ND	1400	82	22 - 151
Butylbenzylphthalate	1,701	ND	1400	82	56 - 120
Carbazole	1,701	ND	1400	82	52 - 114
Chlorobenzilate	1,701	ND	1400	82	50 - 129
Chrysene	1,701	ND	1400	82	43 - 111
Di-n-butylphthalate	1,701	ND	1400	82	57 - 125
Di-n-octyl phthalate	1,701	ND	1300	76	39 - 128
Dibenz(a,h)anthracene	1,701	ND	1500	88	31 - 129
Dibenzofuran	1,701	ND	1300	76	53 - 100
Diethylphthalate	1,701	ND	1400	82	54 - 106
Dimethyl phthalate	1,701	ND	1400	82	54 - 104
Dinoseb	1,701	ND	1200	71	6.4 - 114
Ethyl methanesulfonate	1,701	ND	1100	65	46 - 100
Fluoranthene	1,701	ND	1400	82	43 - 126
Fluorene	1,701	ND	1300	76	57 - 103
Hexachlorobenzene	1,701	ND	1400	82	46 - 113
Hexachlorobutadiene	1,701	ND	1300	76	44 - 93
Hexachlorocyclopentadiene	1,701	ND	730	43	10 - 115
Hexachloroethane	1,701	ND	1000	59	36 - 88
Hexachloropropene	1,701	ND	1100	65	10 - 112
Indeno(1,2,3-cd)pyrene	1,701	ND	1500	88	29 - 131
Isodrin	1,701	ND	1300	76	6.7 - 141
Isophorone	1,701	ND	1200	71	52 - 108
Isosafrole	1,701	ND	1300	76	49 - 97
Kepone	1,701	ND	930	55	10 - 126
Methyl methanesulfonate	1,701	ND	1000	59	15 - 112
N-Nitrosodiphenylamine	1,701	ND	1300	76	50 - 107
N-nitroso-di-n-propylamine	1,701	ND	1100	65	45 - 108
N-nitrosodimethylamine	1,701	ND	1000	59	34 - 90
Naphthalene	1,701	ND	1200	71	43 - 100
Nitrobenzene	1,701	ND	1100	65	46 - 103
Pentachlorobenzene	1,701	ND	1400	82	50 - 101
Pentachloronitrobenzene	1,701	ND	1400	82	51 - 119
Pentachlorophenol	1,701	ND	1400	82	6.2 - 128
Phenacetin	1,701	ND	1300	76	54 - 124
Phenanthrene	1,701	ND	1400	82	47 - 119
Phenol	1,701	ND	1200	71	48 - 97
Pyrene	1,701	ND	1400	82	49 - 117
Pyridine	1,701	ND	740	44	14 - 67
Safrole	1,701	ND	1300	76	49 - 103
bis(-2-Chloroethoxy)methane	1,701	ND	1200	71	47 - 102

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34173

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	52
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	1324	928	70	41 - 113
1,2,4-Trichlorobenzene	1324	916	69	39 - 111
1,2-Dichlorobenzene	1324	816	62	36 - 106
1,3-Dichlorobenzene	1324	793	60	35 - 103
1,3-Dinitrobenzene	1324	945	71	26 - 138
1,4-Dichlorobenzene	1324	798	60	35 - 103
1,4-Naphthoquinone	1324	897	68	37 - 134
1-Methylnaphthalene	1324	917	69	41 - 117
2,2'-oxybis(1-chloropropane)	1324	676	51	30 - 134
2,3,4,6-Tetrachlorophenol	1324	975	74	16 - 153
2,4,5-Trichlorophenol	1324	1020	77	38 - 122
2,4,6-Trichlorophenol	1324	1010	76	39 - 121
2,4-Dichlorophenol	1324	974	74	40 - 118
2,4-Dinitrophenol	1324	305	23	10 - 71
2,4-Dinitrotoluene	1324	970	73	47 - 127
2,4-dimethylphenol	1324	694	52	30 - 120
2,6-Dichlorophenol	1324	966	73	40 - 116
2,6-Dinitrotoluene	1324	978	74	46 - 128
2-Chloronaphthalene	1324	936	71	42 - 125
2-Chlorophenol	1324	923	70	41 - 115
2-Methylnaphthalene	1324	890	67	35 - 120
2-Methylphenol	1324	883	67	40 - 119
2-Nitroaniline	1324	ND	0	29 - 163
2-Nitrophenol	1324	884	67	35 - 115
3&4-Methylphenol	2648	1810	68	3.5 - 149
3,3'-Dichlorobenzidine	1324	788	60	29 - 114
3-Methylcholanthrene	1324	1000	76	40 - 126
3-Nitroaniline	1324	798	60	44 - 120
4,6-Dinitro-2-methylphenol	1324	523	40	10 - 97
4-Bromophenyl-phenylether	1324	1030	78	40 - 133
4-Chloro-3-methylphenol	1324	888	67	36 - 133
4-Chloroaniline	1324	727	55	28 - 99
4-Chlorophenyl-phenylether	1324	986	75	45 - 119
4-Nitroaniline	1324	860	65	37 - 131
4-Nitrophenol	1324	787	59	15 - 141
4-nitroquinoline-1-oxide	1324	795	60	19 - 118
Acenaphthene	1324	902	68	44 - 119
Acenaphthylene	1324	941	71	44 - 121
Acetophenone	1324	848	64	41 - 115
Aniline	1324	510	39	20 - 99
Anthracene	1324	992	75	40 - 137
Aramite	1324	973	74	37 - 118
Azobenzene	1324	890	67	41 - 141
Benzidine	1324	99.9	8	2 - 76
Benzo(a)anthracene	1324	1030	78	46 - 128
Benzo(a)pyrene	1324	1010	76	49 - 124
Benzo(b)fluoranthene	1324	1070	81	41 - 135
Benzo(g,h,i)perylene	1324	1070	81	47 - 123
Benzo(k)fluoranthene	1324	1040	79	50 - 114
Benzoic acid	1324	188	14	10 - 122
Benzyl alcohol	1324	870	66	28 - 129
Bis(2-Chloroethyl)ether	1324	852	64	40 - 112

Bis(2-ethylhexyl)phthalate	1324	923	70	38 - 143
Butylbenzylphthalate	1324	922	70	40 - 143
Carbazole	1324	974	74	42 - 133
Chlorobenzilate	1324	980	74	45 - 139
Chrysene	1324	1020	77	47 - 118
Di-n-butylphthalate	1324	962	73	33 - 183
Di-n-octyl phthalate	1324	918	69	44 - 125
Dibenz(a,h)anthracene	1324	1060	80	47 - 128
Dibenzofuran	1324	955	72	44 - 118
Diethylphthalate	1324	957	72	44 - 132
Dimethyl phthalate	1324	972	73	46 - 121
Dinoseb	1324	683	52	10 - 118
Ethyl methanesulfonate	1324	829	63	41 - 117
Fluoranthene	1324	987	75	42 - 135
Fluorene	1324	947	72	47 - 122
Hexachlorobenzene	1324	1010	76	38 - 133
Hexachlorobutadiene	1324	927	70	40 - 108
Hexachlorocyclopentadiene	1324	904	68	18 - 130
Hexachloroethane	1324	820	62	34 - 106
Hexachloropropene	1324	867	66	31 - 115
Indeno(1,2,3-cd)pyrene	1324	1080	82	46 - 127
Isodrin	1324	953	72	43 - 137
Isophorone	1324	787	59	45 - 125
Isosafrole	1324	934	71	41 - 115
Kepone	1324	674	51	12 - 101
Methyl methanesulfonate	1324	861	65	6.3 - 136
N-Nitrosodiphenylamine	1324	967	73	30 - 148
N-nitroso-di-n-propylamine	1324	763	58	41 - 122
N-nitrosodimethylamine	1324	760	57	28 - 107
Naphthalene	1324	873	66	38 - 118
Nitrobenzene	1324	790	60	40 - 119
Pentachlorobenzene	1324	990	75	44 - 116
Pentachloronitrobenzene	1324	970	73	39 - 139
Pentachlorophenol	1324	838	63	10 - 117
Phenacetin	1324	885	67	39 - 146
Phenanthrene	1324	984	74	39 - 134
Phenol	1324	916	69	39 - 121
Pyrene	1324	1030	78	45 - 130
Pyridine	1324	552	42	22 - 77
Safrole	1324	940	71	45 - 119
bis(-2-Chloroethoxy)methane	1324	871	66	40 - 119

Comments:

PN: 12100010

①

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature]	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel

Number: 2158.01

Location: Nashua, New Hampshire

QA Manager: K. Dubois kdubois@sanbornhead.com

Project Manager: T. White twhite@sanbornhead.com

NHDES Site # 198404002

Deliverable Information

TAT: Standard

Delivery Method: Alpha Courier

Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211

SGD Complete? Yes

Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-01_0-.3	10/08/12	10:44	SE	X	X				2		
	MHK_SED-02_0-.3	10/08/12	10:59	SE	X	X				2		
	MHK_SED-03_0-.3	10/08/12	11:14	SE	X	X				2		
	MHK_SED-04_0-.3	10/08/12	11:29	SE	X	X				2		
	MHK_SED-05_0-.3	10/08/12	11:44	SE	X	X				2		
	MHK_SED-06_0-.3	10/09/12	11:10	SE	X	X				2		
	MHK_SED-07_0-.3	10/08/12	12:07	SE	X	X				2		
	MHK_SED-08_0-.3	10/08/12	12:24	SE	X	X				2		
	MHK_SED-09_0-.3	10/08/12	14:44	SE	X	X				2		
	MHK_SED-10_0-.3	10/08/12	14:30	SE	X	X				2		

PN: 12100010

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature] ESAT	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-11_0-.3	10/08/12	15:14	SE	X	X				2		
	MHK_SED-12_0-.3	10/08/12	15:00	SE	X	X				2		
	MHK_SED-13_0-.3	10/09/12	10:39	SE	X	X				2		
	MHK_SED-14_0-.3	10/08/12	14:10	SE	X	X				2		
	MHK_SED-15_0-.3	10/08/12	13:54	SE	X	X				2		
	MHK_SED-16_0-.3	10/09/12	9:23	SE	X	X				2		
	OW-211	10/09/12	10:39	SE	X	X				2		
	EQUIP BLANK	10/09/12	11:50	AQ	X	X				6	–	
	TRIP BLANK	10/04/12	9:00	AQ	X					4	–	
	VS0656	10/09/12	12:20	SE	X					1	–	
	SS2131	10/09/12	12:20	SE		X				1	–	

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 17, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100010
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in water
Analyst: Bhavita Patel

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were prepared using separatory funnel liquid-liquid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this method is based on the US EPA SW-846 Methods 3510C, 8270C, Method 625, and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/09/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Aqueous
Date of Extraction:	10/15/12	Amount Prepared	1000 mL
Date of Analysis:	10/15/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Aqueous
Date of Extraction:	10/15/12	Amount Prepared	1000 mL
Date of Analysis:	10/15/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	2.5	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Aqueous
Date of Extraction:	10/15/12	Amount Prepared	1000 mL
Date of Analysis:	10/15/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	81	34 - 122
2-Fluorobiphenyl (SS4)	84	46 - 112
2-Fluorophenol (SS1)	54	23 - 74
Nitrobenzene-d5 (SS3)	64	33 - 122
Phenol-d6 (SS2)	33	13 - 53
p-Terphenyl-d14 (SS6)	79	52 - 126

Comments: The reporting level for several compounds have been raised to reflect the calibration range.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34182
Date of Collection:	10/9/2012	Matrix	Aqueous
Date of Extraction:	10/15/12	Amount Prepared	1000 mL
Date of Analysis:	10/15/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34182
Date of Collection:	10/9/2012	Matrix	Aqueous
Date of Extraction:	10/15/12	Amount Prepared	1000 mL
Date of Analysis:	10/15/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	2.5	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34182
Date of Collection:	10/9/2012	Matrix	Aqueous
Date of Extraction:	10/15/12	Amount Prepared	1000 mL
Date of Analysis:	10/15/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	58	12 - 74
Phenol-d6 (SS2)	36	6 - 52
Nitrobenzene-d5 (SS3)	77	32 - 114
2-Fluorobiphenyl (SS4)	95	33 - 119
2,4,6-Tribromophenol (SS5)	90	30 - 144
p-Terphenyl-d14 (SS6)	91	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range.

Laboratory Duplicate Results

Sample ID: AB34182

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	NC	50
1,2,4-Trichlorobenzene	ND	ND	NC	50
1,2-Dichlorobenzene	ND	ND	NC	50
1,3-Dichlorobenzene	ND	ND	NC	50
1,3-Dinitrobenzene	ND	ND	NC	50
1,4-Dichlorobenzene	ND	ND	NC	50
1,4-Naphthoquinone	ND	ND	NC	50
1-Methylnaphthalene	ND	ND	NC	50
2,2'-oxybis(1-chloropropane)	ND	ND	NC	50
2,3,4,6-Tetrachlorophenol	ND	ND	NC	50
2,4,5-Trichlorophenol	ND	ND	NC	50
2,4,6-Trichlorophenol	ND	ND	NC	50
2,4-Dichlorophenol	ND	ND	NC	50
2,4-Dinitrophenol	ND	ND	NC	50
2,4-Dinitrotoluene	ND	ND	NC	50
2,4-dimethylphenol	ND	ND	NC	50
2,6-Dichlorophenol	ND	ND	NC	50
2,6-Dinitrotoluene	ND	ND	NC	50
2-Chloronaphthalene	ND	ND	NC	50
2-Chlorophenol	ND	ND	NC	50
2-Methylnaphthalene	ND	ND	NC	50
2-Methylphenol	ND	ND	NC	50
2-Nitroaniline	ND	ND	NC	50
2-Nitrophenol	ND	ND	NC	50
3&4-Methylphenol	ND	ND	NC	50
3,3'-Dichlorobenzidine	ND	ND	NC	50
3-Methylcholanthrene	ND	ND	NC	50
3-Nitroaniline	ND	ND	NC	50
4,6-Dinitro-2-methylphenol	ND	ND	NC	50
4-Bromophenyl-phenylether	ND	ND	NC	50
4-Chloro-3-methylphenol	ND	ND	NC	50
4-Chloroaniline	ND	ND	NC	50
4-Chlorophenyl-phenylether	ND	ND	NC	50
4-Nitroaniline	ND	ND	NC	50
4-Nitrophenol	ND	ND	NC	50
4-nitroquinoline-1-oxide	ND	ND	NC	50
Acenaphthene	ND	ND	NC	50
Acenaphthylene	ND	ND	NC	50
Acetophenone	ND	ND	NC	50
Aniline	ND	ND	NC	50
Anthracene	ND	ND	NC	50
Aramite	ND	ND	NC	50
Azobenzene	ND	ND	NC	50
Benzidine	ND	ND	NC	50
Benzo(a)anthracene	ND	ND	NC	50
Benzo(a)pyrene	ND	ND	NC	50
Benzo(b)fluoranthene	ND	ND	NC	50
Benzo(g,h,i)perylene	ND	ND	NC	50

Benzo(k)fluoranthene	ND	ND	NC	50
Benzoic acid	ND	ND	NC	50
Benzyl alcohol	ND	ND	NC	50
Bis(2-Chloroethyl)ether	ND	ND	NC	50
Bis(2-ethylhexyl)phthalate	ND	ND	NC	50
Butylbenzylphthalate	ND	ND	NC	50
Carbazole	ND	ND	NC	50
Chlorobenzilate	ND	ND	NC	50
Chrysene	ND	ND	NC	50
Di-n-butylphthalate	ND	ND	NC	50
Di-n-octyl phthalate	ND	ND	NC	50
Dibenz(a,h)anthracene	ND	ND	NC	50
Dibenzofuran	ND	ND	NC	50
Diethylphthalate	ND	ND	NC	50
Dimethyl phthalate	ND	ND	NC	50
Dinoseb	ND	ND	NC	50
Ethyl methanesulfonate	ND	ND	NC	50
Fluoranthene	ND	ND	NC	50
Fluorene	ND	ND	NC	50
Hexachlorobenzene	ND	ND	NC	50
Hexachlorobutadiene	ND	ND	NC	50
Hexachlorocyclopentadiene	ND	ND	NC	50
Hexachloroethane	ND	ND	NC	50
Hexachloropropene	ND	ND	NC	50
Indeno(1,2,3-cd)pyrene	ND	ND	NC	50
Isodrin	ND	ND	NC	50
Isophorone	ND	ND	NC	50
Isosafrole	ND	ND	NC	50
Kepone	ND	ND	NC	50
Methyl methanesulfonate	ND	ND	NC	50
N-Nitrosodiphenylamine	ND	ND	NC	50
N-nitroso-di-n-propylamine	ND	ND	NC	50
N-nitrosodimethylamine	ND	ND	NC	50
Naphthalene	ND	ND	NC	50
Nitrobenzene	ND	ND	NC	50
Pentachlorobenzene	ND	ND	NC	50
Pentachloronitrobenzene	ND	ND	NC	50
Pentachlorophenol	ND	ND	NC	50
Phenacetin	ND	ND	NC	50
Phenanthrene	ND	ND	NC	50
Phenol	ND	ND	NC	50
Pyrene	ND	ND	NC	50
Pyridine	ND	ND	NC	50
Safrole	ND	ND	NC	50
bis(-2-Chloroethoxy)methane	ND	ND	NC	50

Comments:

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	40	32.1	80	20 - 104
1,2,4-Trichlorobenzene	40	31.9	80	11 - 97
1,2-Dichlorobenzene	40	27.5	69	11 - 93
1,3-Dichlorobenzene	40	26.6	67	8.3 - 86
1,3-Dinitrobenzene	40	39.1	98	58 - 122
1,4-Dichlorobenzene	40	26.5	66	11 - 86
1,4-Naphthoquinone	40	34.5	86	19 - 133
1-Methylnaphthalene	40	31.5	79	30 - 111
2,2'-oxybis(1-chloropropane)	40	25.1	63	37 - 119
2,3,4,6-Tetrachlorophenol	40	39.6	99	52 - 128
2,4,5-Trichlorophenol	40	38.9	97	54 - 121
2,4,6-Trichlorophenol	40	38.0	95	56 - 120
2,4-Dichlorophenol	40	35.7	89	55 - 112
2,4-Dinitrophenol	40	29.0	73	15 - 134
2,4-Dinitrotoluene	40	37.8	95	59 - 130
2,4-dimethylphenol	40	34.8	87	38 - 117
2,6-Dichlorophenol	40	36.8	92	52 - 112
2,6-Dinitrotoluene	40	35.2	88	56 - 129
2-Chloronaphthalene	40	34.0	85	29 - 118
2-Chlorophenol	40	32.2	81	49 - 104
2-Methylnaphthalene	40	30.5	76	27 - 108
2-Methylphenol	40	28.7	72	41 - 109
2-Nitroaniline	40	31.3	78	48 - 150
2-Nitrophenol	40	37.0	93	53 - 117
3&4-Methylphenol	80	54.2	68	18 - 127
3,3'-Dichlorobenzidine	40	37.3	93	52 - 129
3-Methylcholanthrene	40	37.2	93	51 - 119
3-Nitroaniline	40	36.6	92	53 - 128
4,6-Dinitro-2-methylphenol	40	33.7	84	42 - 121
4-Bromophenyl-phenylether	40	38.4	96	51 - 119
4-Chloro-3-methylphenol	40	32.7	82	51 - 128
4-Chloroaniline	40	33.4	84	37 - 115
4-Chlorophenyl-phenylether	40	37.1	93	47 - 116
4-Nitroaniline	40	37.4	94	44 - 139
4-Nitrophenol	40	18.1	45	22 - 84
4-nitroquinoline-1-oxide	40	25.8	65	30 - 117
Acenaphthene	40	34.7	87	47 - 111
Acenaphthylene	40	34.6	87	50 - 112
Acetophenone	40	31.8	80	35 - 134
Aniline	40	22.6	57	33 - 102
Anthracene	40	36.6	92	58 - 124
Aramite	40	32.1	80	37 - 126
Azobenzene	40	33.7	84	54 - 120
Benzidine	40	8.8	22	10 - 85
Benzo(a)anthracene	40	36.8	92	62 - 120
Benzo(a)pyrene	40	36.2	91	56 - 128
Benzo(b)fluoranthene	40	36.2	91	50 - 135

Benzo(g,h,i)perylene	40	36.8	92	53 - 126
Benzo(k)fluoranthene	40	31.1	78	55 - 126
Benzoic acid	40	7.7	19	17 - 77
Benzyl alcohol	40	27.8	70	31 - 121
Bis(2-Chloroethyl)ether	40	31.0	78	52 - 106
Bis(2-ethylhexyl)phthalate	40	33.3	83	63 - 130
Butylbenzylphthalate	40	33.6	84	60 - 133
Carbazole	40	36.7	92	57 - 127
Chlorobenzilate	40	33.9	85	60 - 131
Chrysene	40	36.9	92	60 - 116
Di-n-butylphthalate	40	35.8	90	60 - 133
Di-n-octyl phthalate	40	34.2	86	48 - 133
Dibenz(a,h)anthracene	40	37.9	95	55 - 130
Dibenzofuran	40	35.3	88	51 - 110
Diethylphthalate	40	36.6	92	38 - 146
Dimethyl phthalate	40	36.2	91	58 - 121
Dinoseb	40	33.0	83	19 - 78
Ethyl methanesulfonate	40	28.9	72	48 - 115
Fluoranthene	40	38.0	95	57 - 128
Fluorene	40	36.5	91	53 - 116
Hexachlorobenzene	40	38.1	95	55 - 116
Hexachlorobutadiene	40	28.2	71	10 - 92
Hexachlorocyclopentadiene	40	28.5	71	1.5 - 108
Hexachloroethane	40	23.2	58	11 - 83
Hexachloropropene	40	26.7	67	13 - 96
Indeno(1,2,3-cd)pyrene	40	38.1	95	54 - 129
Isodrin	40	35.7	89	53 - 124
Isophorone	40	33.3	83	53 - 128
Isosafrole	40	34.2	86	41 - 112
Kepone	40	ND	0	10 - 140
Methyl methanesulfonate	40	26.9	67	25 - 104
N-Nitrosodiphenylamine	40	34.8	87	56 - 115
N-nitroso-di-n-propylamine	40	28.8	72	47 - 126
N-nitrosodimethylamine	40	21.6	54	29 - 76
Naphthalene	40	31.5	79	31 - 104
Nitrobenzene	40	32.2	81	53 - 108
Pentachlorobenzene	40	38.2	96	44 - 110
Pentachloronitrobenzene	40	35.9	90	57 - 127
Pentachlorophenol	40	35.8	90	31 - 121
Phenacetin	40	35.2	88	51 - 142
Phenanthrene	40	35.6	89	56 - 119
Phenol	40	14.6	37	18 - 69
Pyrene	40	34.2	86	62 - 117
Pyridine	40	20.6	52	22 - 75
Safrole	40	35.9	90	49 - 114
bis(-2-Chloroethoxy)methane	40	35.2	88	56 - 112

Comments: There were only 2 liters of sample submitted, there is no matrix spike for this project.
There is no recovery of kepone in the LFB.

Samples in Batch: AB34182

PN: 12100010

①

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature]	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-01_0-.3	10/08/12	10:44	SE	X	X				2		
	MHK_SED-02_0-.3	10/08/12	10:59	SE	X	X				2		
	MHK_SED-03_0-.3	10/08/12	11:14	SE	X	X				2		
	MHK_SED-04_0-.3	10/08/12	11:29	SE	X	X				2		
	MHK_SED-05_0-.3	10/08/12	11:44	SE	X	X				2		
	MHK_SED-06_0-.3	10/09/12	11:10	SE	X	X				2		
	MHK_SED-07_0-.3	10/08/12	12:07	SE	X	X				2		
	MHK_SED-08_0-.3	10/08/12	12:24	SE	X	X				2		
	MHK_SED-09_0-.3	10/08/12	14:44	SE	X	X				2		
	MHK_SED-10_0-.3	10/08/12	14:30	SE	X	X				2		

PN: 12100010

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature] ESAT	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-11_0-.3	10/08/12	15:14	SE	X	X				2		
	MHK_SED-12_0-.3	10/08/12	15:00	SE	X	X				2		
	MHK_SED-13_0-.3	10/09/12	10:39	SE	X	X				2		
	MHK_SED-14_0-.3	10/08/12	14:10	SE	X	X				2		
	MHK_SED-15_0-.3	10/08/12	13:54	SE	X	X				2		
	MHK_SED-16_0-.3	10/09/12	9:23	SE	X	X				2		
	OW-211	10/09/12	10:39	SE	X	X				2		
	EQUIP BLANK	10/09/12	11:50	AQ	X	X				6	–	
	TRIP BLANK	10/04/12	9:00	AQ	X					4	–	
	VS0656	10/09/12	12:20	SE	X					1	–	
	SS2131	10/09/12	12:20	SE		X				1	–	

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 17, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100010
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Soil High Level Method
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Date Samples Received by the Laboratory: 10/09/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-01_0-.3	Lab Sample ID:	AB34165
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	5.897 grams	Extract Dilution:	50
Wet Weight Extracted:	7.560 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	99	
71-55-6	1,1,1-Trichloroethane	ND	99	
79-34-5	1,1,2,2-Tetrachloroethane	ND	99	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	99	
79-00-5	1,1,2-Trichloroethane	ND	99	
75-35-4	1,1-Dichloroethylene	ND	99	
563-58-6	1,1-Dichloropropene	ND	99	
75-34-3	1,1-dichloroethane	ND	99	
87-61-6	1,2,3-Trichlorobenzene	ND	99	
96-18-4	1,2,3-Trichloropropane	ND	99	
120-82-1	1,2,4-Trichlorobenzene	ND	99	
95-63-6	1,2,4-Trimethylbenzene	ND	99	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	99	
106-93-4	1,2-Dibromoethane	ND	99	
95-50-1	1,2-Dichlorobenzene	ND	99	
107-06-2	1,2-Dichloroethane	ND	99	
78-87-5	1,2-Dichloropropane	ND	99	
108-67-8	1,3,5-Trimethylbenzene	ND	99	
541-73-1	1,3-Dichlorobenzene	ND	99	
142-28-9	1,3-Dichloropropane	ND	99	
106-46-7	1,4-Dichlorobenzene	ND	99	
594-20-7	2,2-Dichloropropane	ND	99	
78-93-3	2-Butanone (MEK)	ND	99	
95-49-8	2-Chlorotoluene	ND	99	
591-78-6	2-Hexanone	ND	99	
67-64-1	2-Propanone (acetone)	ND	99	
106-43-4	4-Chlorotoluene	ND	99	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	99	
107-13-1	Acrylonitrile	ND	99	
71-43-2	Benzene	ND	99	
108-86-1	Bromobenzene	ND	99	
74-97-5	Bromochloromethane	ND	99	
75-27-4	Bromodichloromethane	ND	99	
75-25-2	Bromoform	ND	99	
74-83-9	Bromomethane	ND	99	
75-15-0	Carbon Disulfide	ND	99	
56-23-5	Carbon tetrachloride	ND	99	
108-90-7	Chlorobenzene	ND	99	
75-00-3	Chloroethane	ND	99	
67-66-3	Chloroform	ND	99	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-01_0-.3	Lab Sample ID:	AB34165
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	5.897 grams	Extract Dilution:	50
Wet Weight Extracted:	7.560 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	99	
124-48-1	Dibromochloromethane	ND	99	
74-95-3	Dibromomethane	ND	99	
75-71-8	Dichlorodifluoromethane	ND	99	
60-29-7	Ethyl Ether	ND	99	
100-41-4	Ethylbenzene	ND	99	
87-68-3	Hexachlorobutadiene	ND	99	
98-82-8	Isopropylbenzene	ND	99	
108-38-3/106-42-	M/P Xylene	ND	200	
1634-04-4	Methyl-t-Butyl Ether	ND	99	
75-09-2	Methylene Chloride	ND	99	
104-51-8	N-Butylbenzene	ND	99	
103-65-1	N-Propylbenzene	ND	99	
91-20-3	Naphthalene	ND	99	
95-47-6	Ortho Xylene	ND	99	
99-87-6	Para-Isopropyltoluene	ND	99	
135-98-8	Sec-Butylbenzene	ND	99	
100-42-5	Styrene	ND	99	
98-06-6	Tert-Butylbenzene	ND	99	
127-18-4	Tetrachloroethylene	ND	99	
109-99-9	Tetrahydrofuran	ND	99	
108-88-3	Toluene	ND	99	
156-60-5	Trans-1,2-Dichloroethylene	ND	99	
79-01-6	Trichloroethylene	ND	99	
75-69-4	Trichlorofluoromethane	ND	99	
108-05-4	Vinyl Acetate	ND	99	
75-01-4	Vinyl Chloride	ND	99	
10061-01-5	c-1,3-dichloropropene	ND	99	
156-59-2	cis-1,2-Dichloroethylene	ND	99	
10061-02-6	t-1,3-Dichloropropene	ND	99	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.0**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	88	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34165 (MS/MS and Duplicate Studies) - AB34168.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-02_0-.3	Lab Sample ID:	AB34166
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	6.887 grams	Extract Dilution:	50
Wet Weight Extracted:	8.944 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	88	
71-55-6	1,1,1-Trichloroethane	ND	88	
79-34-5	1,1,2,2-Tetrachloroethane	ND	88	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	88	
79-00-5	1,1,2-Trichloroethane	ND	88	
75-35-4	1,1-Dichloroethylene	ND	88	
563-58-6	1,1-Dichloropropene	ND	88	
75-34-3	1,1-dichloroethane	ND	88	
87-61-6	1,2,3-Trichlorobenzene	ND	88	
96-18-4	1,2,3-Trichloropropane	ND	88	
120-82-1	1,2,4-Trichlorobenzene	ND	88	
95-63-6	1,2,4-Trimethylbenzene	ND	88	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	88	
106-93-4	1,2-Dibromoethane	ND	88	
95-50-1	1,2-Dichlorobenzene	ND	88	
107-06-2	1,2-Dichloroethane	ND	88	
78-87-5	1,2-Dichloropropane	ND	88	
108-67-8	1,3,5-Trimethylbenzene	ND	88	
541-73-1	1,3-Dichlorobenzene	ND	88	
142-28-9	1,3-Dichloropropane	ND	88	
106-46-7	1,4-Dichlorobenzene	ND	88	
594-20-7	2,2-Dichloropropane	ND	88	
78-93-3	2-Butanone (MEK)	ND	88	
95-49-8	2-Chlorotoluene	ND	88	
591-78-6	2-Hexanone	ND	88	
67-64-1	2-Propanone (acetone)	ND	88	
106-43-4	4-Chlorotoluene	ND	88	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	88	
107-13-1	Acrylonitrile	ND	88	
71-43-2	Benzene	ND	88	
108-86-1	Bromobenzene	ND	88	
74-97-5	Bromochloromethane	ND	88	
75-27-4	Bromodichloromethane	ND	88	
75-25-2	Bromoform	ND	88	
74-83-9	Bromomethane	ND	88	
75-15-0	Carbon Disulfide	ND	88	
56-23-5	Carbon tetrachloride	ND	88	
108-90-7	Chlorobenzene	ND	88	
75-00-3	Chloroethane	ND	88	
67-66-3	Chloroform	ND	88	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-02_0-.3	Lab Sample ID:	AB34166
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	6.887 grams	Extract Dilution:	50
Wet Weight Extracted:	8.944 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	88	
124-48-1	Dibromochloromethane	ND	88	
74-95-3	Dibromomethane	ND	88	
75-71-8	Dichlorodifluoromethane	ND	88	
60-29-7	Ethyl Ether	ND	88	
100-41-4	Ethylbenzene	ND	88	
87-68-3	Hexachlorobutadiene	ND	88	
98-82-8	Isopropylbenzene	ND	88	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	88	
75-09-2	Methylene Chloride	ND	88	
104-51-8	N-Butylbenzene	ND	88	
103-65-1	N-Propylbenzene	ND	88	
91-20-3	Naphthalene	ND	88	
95-47-6	Ortho Xylene	ND	88	
99-87-6	Para-Isopropyltoluene	ND	88	
135-98-8	Sec-Butylbenzene	ND	88	
100-42-5	Styrene	ND	88	
98-06-6	Tert-Butylbenzene	ND	88	
127-18-4	Tetrachloroethylene	ND	88	
109-99-9	Tetrahydrofuran	ND	88	
108-88-3	Toluene	ND	88	
156-60-5	Trans-1,2-Dichloroethylene	ND	88	
79-01-6	Trichloroethylene	ND	88	
75-69-4	Trichlorofluoromethane	ND	88	
108-05-4	Vinyl Acetate	ND	88	
75-01-4	Vinyl Chloride	ND	88	
10061-01-5	c-1,3-dichloropropene	ND	88	
156-59-2	cis-1,2-Dichloroethylene	ND	88	
10061-02-6	t-1,3-Dichloropropene	ND	88	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	100	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-03_0-.3	Lab Sample ID:	AB34167
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	75%
Dry Weight Extracted:	7.916 grams	Extract Dilution:	50
Wet Weight Extracted:	10.555 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	80	
71-55-6	1,1,1-Trichloroethane	ND	80	
79-34-5	1,1,2,2-Tetrachloroethane	ND	80	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	80	
79-00-5	1,1,2-Trichloroethane	ND	80	
75-35-4	1,1-Dichloroethylene	ND	80	
563-58-6	1,1-Dichloropropene	ND	80	
75-34-3	1,1-dichloroethane	ND	80	
87-61-6	1,2,3-Trichlorobenzene	ND	80	
96-18-4	1,2,3-Trichloropropane	ND	80	
120-82-1	1,2,4-Trichlorobenzene	ND	80	
95-63-6	1,2,4-Trimethylbenzene	ND	80	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	80	
106-93-4	1,2-Dibromoethane	ND	80	
95-50-1	1,2-Dichlorobenzene	ND	80	
107-06-2	1,2-Dichloroethane	ND	80	
78-87-5	1,2-Dichloropropane	ND	80	
108-67-8	1,3,5-Trimethylbenzene	ND	80	
541-73-1	1,3-Dichlorobenzene	ND	80	
142-28-9	1,3-Dichloropropane	ND	80	
106-46-7	1,4-Dichlorobenzene	ND	80	
594-20-7	2,2-Dichloropropane	ND	80	
78-93-3	2-Butanone (MEK)	ND	80	
95-49-8	2-Chlorotoluene	ND	80	
591-78-6	2-Hexanone	ND	80	
67-64-1	2-Propanone (acetone)	ND	80	
106-43-4	4-Chlorotoluene	ND	80	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	80	
107-13-1	Acrylonitrile	ND	80	
71-43-2	Benzene	ND	80	
108-86-1	Bromobenzene	ND	80	
74-97-5	Bromochloromethane	ND	80	
75-27-4	Bromodichloromethane	ND	80	
75-25-2	Bromoform	ND	80	
74-83-9	Bromomethane	ND	80	
75-15-0	Carbon Disulfide	ND	80	
56-23-5	Carbon tetrachloride	ND	80	
108-90-7	Chlorobenzene	ND	80	
75-00-3	Chloroethane	ND	80	
67-66-3	Chloroform	ND	80	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-03_0-.3	Lab Sample ID:	AB34167
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	75%
Dry Weight Extracted:	7.916 grams	Extract Dilution:	50
Wet Weight Extracted:	10.555 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	80	
124-48-1	Dibromochloromethane	ND	80	
74-95-3	Dibromomethane	ND	80	
75-71-8	Dichlorodifluoromethane	ND	80	
60-29-7	Ethyl Ether	ND	80	
100-41-4	Ethylbenzene	ND	80	
87-68-3	Hexachlorobutadiene	ND	80	
98-82-8	Isopropylbenzene	ND	80	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	80	
75-09-2	Methylene Chloride	ND	80	
104-51-8	N-Butylbenzene	ND	80	
103-65-1	N-Propylbenzene	ND	80	
91-20-3	Naphthalene	ND	80	
95-47-6	Ortho Xylene	ND	80	
99-87-6	Para-Isopropyltoluene	ND	80	
135-98-8	Sec-Butylbenzene	ND	80	
100-42-5	Styrene	ND	80	
98-06-6	Tert-Butylbenzene	ND	80	
127-18-4	Tetrachloroethylene	ND	80	
109-99-9	Tetrahydrofuran	ND	80	
108-88-3	Toluene	ND	80	
156-60-5	Trans-1,2-Dichloroethylene	ND	80	
79-01-6	Trichloroethylene	ND	80	
75-69-4	Trichlorofluoromethane	ND	80	
108-05-4	Vinyl Acetate	ND	80	
75-01-4	Vinyl Chloride	ND	80	
10061-01-5	c-1,3-dichloropropene	ND	80	
156-59-2	cis-1,2-Dichloroethylene	ND	80	
10061-02-6	t-1,3-Dichloropropene	ND	80	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-04_0-.3	Lab Sample ID:	AB34168
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	73%
Dry Weight Extracted:	8.257 grams	Extract Dilution:	50
Wet Weight Extracted:	11.311 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	79	
71-55-6	1,1,1-Trichloroethane	ND	79	
79-34-5	1,1,2,2-Tetrachloroethane	ND	79	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	79	
79-00-5	1,1,2-Trichloroethane	ND	79	
75-35-4	1,1-Dichloroethylene	ND	79	
563-58-6	1,1-Dichloropropene	ND	79	
75-34-3	1,1-dichloroethane	ND	79	
87-61-6	1,2,3-Trichlorobenzene	ND	79	
96-18-4	1,2,3-Trichloropropane	ND	79	
120-82-1	1,2,4-Trichlorobenzene	ND	79	
95-63-6	1,2,4-Trimethylbenzene	ND	79	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	79	
106-93-4	1,2-Dibromoethane	ND	79	
95-50-1	1,2-Dichlorobenzene	ND	79	
107-06-2	1,2-Dichloroethane	ND	79	
78-87-5	1,2-Dichloropropane	ND	79	
108-67-8	1,3,5-Trimethylbenzene	ND	79	
541-73-1	1,3-Dichlorobenzene	ND	79	
142-28-9	1,3-Dichloropropane	ND	79	
106-46-7	1,4-Dichlorobenzene	ND	79	
594-20-7	2,2-Dichloropropane	ND	79	
78-93-3	2-Butanone (MEK)	ND	79	
95-49-8	2-Chlorotoluene	ND	79	
591-78-6	2-Hexanone	ND	79	
67-64-1	2-Propanone (acetone)	ND	79	
106-43-4	4-Chlorotoluene	ND	79	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	79	
107-13-1	Acrylonitrile	ND	79	
71-43-2	Benzene	ND	79	
108-86-1	Bromobenzene	ND	79	
74-97-5	Bromochloromethane	ND	79	
75-27-4	Bromodichloromethane	ND	79	
75-25-2	Bromoform	ND	79	
74-83-9	Bromomethane	ND	79	
75-15-0	Carbon Disulfide	ND	79	
56-23-5	Carbon tetrachloride	ND	79	
108-90-7	Chlorobenzene	ND	79	
75-00-3	Chloroethane	ND	79	
67-66-3	Chloroform	ND	79	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-04_0-.3	Lab Sample ID:	AB34168
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	73%
Dry Weight Extracted:	8.257 grams	Extract Dilution:	50
Wet Weight Extracted:	11.311 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	79	
124-48-1	Dibromochloromethane	ND	79	
74-95-3	Dibromomethane	ND	79	
75-71-8	Dichlorodifluoromethane	ND	79	
60-29-7	Ethyl Ether	ND	79	
100-41-4	Ethylbenzene	ND	79	
87-68-3	Hexachlorobutadiene	ND	79	
98-82-8	Isopropylbenzene	ND	79	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	79	
75-09-2	Methylene Chloride	ND	79	
104-51-8	N-Butylbenzene	ND	79	
103-65-1	N-Propylbenzene	ND	79	
91-20-3	Naphthalene	ND	79	
95-47-6	Ortho Xylene	ND	79	
99-87-6	Para-Isopropyltoluene	ND	79	
135-98-8	Sec-Butylbenzene	ND	79	
100-42-5	Styrene	ND	79	
98-06-6	Tert-Butylbenzene	ND	79	
127-18-4	Tetrachloroethylene	ND	79	
109-99-9	Tetrahydrofuran	ND	79	
108-88-3	Toluene	ND	79	
156-60-5	Trans-1,2-Dichloroethylene	ND	79	
79-01-6	Trichloroethylene	ND	79	
75-69-4	Trichlorofluoromethane	ND	79	
108-05-4	Vinyl Acetate	ND	79	
75-01-4	Vinyl Chloride	ND	79	
10061-01-5	c-1,3-dichloropropene	ND	79	
156-59-2	cis-1,2-Dichloroethylene	ND	79	
10061-02-6	t-1,3-Dichloropropene	ND	79	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	101	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-05_0-.3	Lab Sample ID:	AB34169
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	59%
Dry Weight Extracted:	6.660 grams	Extract Dilution:	50
Wet Weight Extracted:	11.288 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	110	
71-55-6	1,1,1-Trichloroethane	ND	110	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	110	
79-00-5	1,1,2-Trichloroethane	ND	110	
75-35-4	1,1-Dichloroethylene	ND	110	
563-58-6	1,1-Dichloropropene	ND	110	
75-34-3	1,1-dichloroethane	ND	110	
87-61-6	1,2,3-Trichlorobenzene	ND	110	
96-18-4	1,2,3-Trichloropropane	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-63-6	1,2,4-Trimethylbenzene	ND	110	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	110	
106-93-4	1,2-Dibromoethane	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
107-06-2	1,2-Dichloroethane	ND	110	
78-87-5	1,2-Dichloropropane	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
142-28-9	1,3-Dichloropropane	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
594-20-7	2,2-Dichloropropane	ND	110	
78-93-3	2-Butanone (MEK)	ND	110	
95-49-8	2-Chlorotoluene	ND	110	
591-78-6	2-Hexanone	ND	110	
67-64-1	2-Propanone (acetone)	ND	110	
106-43-4	4-Chlorotoluene	ND	110	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	110	
107-13-1	Acrylonitrile	ND	110	
71-43-2	Benzene	ND	110	
108-86-1	Bromobenzene	ND	110	
74-97-5	Bromochloromethane	ND	110	
75-27-4	Bromodichloromethane	ND	110	
75-25-2	Bromoform	ND	110	
74-83-9	Bromomethane	ND	110	
75-15-0	Carbon Disulfide	ND	110	
56-23-5	Carbon tetrachloride	ND	110	
108-90-7	Chlorobenzene	**110**	110	
75-00-3	Chloroethane	ND	110	
67-66-3	Chloroform	ND	110	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-05_0-.3	Lab Sample ID:	AB34169
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	59%
Dry Weight Extracted:	6.660 grams	Extract Dilution:	50
Wet Weight Extracted:	11.288 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	110	
124-48-1	Dibromochloromethane	ND	110	
74-95-3	Dibromomethane	ND	110	
75-71-8	Dichlorodifluoromethane	ND	110	
60-29-7	Ethyl Ether	ND	110	
100-41-4	Ethylbenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
98-82-8	Isopropylbenzene	ND	110	
108-38-3/106-42-	M/P Xylene	ND	220	
1634-04-4	Methyl-t-Butyl Ether	ND	110	
75-09-2	Methylene Chloride	ND	110	
104-51-8	N-Butylbenzene	ND	110	
103-65-1	N-Propylbenzene	ND	110	
91-20-3	Naphthalene	ND	110	
95-47-6	Ortho Xylene	ND	110	
99-87-6	Para-Isopropyltoluene	ND	110	
135-98-8	Sec-Butylbenzene	ND	110	
100-42-5	Styrene	ND	110	
98-06-6	Tert-Butylbenzene	ND	110	
127-18-4	Tetrachloroethylene	ND	110	
109-99-9	Tetrahydrofuran	ND	110	
108-88-3	Toluene	ND	110	
156-60-5	Trans-1,2-Dichloroethylene	ND	110	
79-01-6	Trichloroethylene	ND	110	
75-69-4	Trichlorofluoromethane	ND	110	
108-05-4	Vinyl Acetate	ND	110	
75-01-4	Vinyl Chloride	ND	110	
10061-01-5	c-1,3-dichloropropene	ND	110	
156-59-2	cis-1,2-Dichloroethylene	ND	110	
10061-02-6	t-1,3-Dichloropropene	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.5**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	86	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34169 - AB34181.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-06_0-.3	Lab Sample ID:	AB34170
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	7.952 grams	Extract Dilution:	50
Wet Weight Extracted:	10.327 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	78	
71-55-6	1,1,1-Trichloroethane	ND	78	
79-34-5	1,1,2,2-Tetrachloroethane	ND	78	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	78	
79-00-5	1,1,2-Trichloroethane	ND	78	
75-35-4	1,1-Dichloroethylene	ND	78	
563-58-6	1,1-Dichloropropene	ND	78	
75-34-3	1,1-dichloroethane	ND	78	
87-61-6	1,2,3-Trichlorobenzene	ND	78	
96-18-4	1,2,3-Trichloropropane	ND	78	
120-82-1	1,2,4-Trichlorobenzene	ND	78	
95-63-6	1,2,4-Trimethylbenzene	ND	78	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	78	
106-93-4	1,2-Dibromoethane	ND	78	
95-50-1	1,2-Dichlorobenzene	ND	78	
107-06-2	1,2-Dichloroethane	ND	78	
78-87-5	1,2-Dichloropropane	ND	78	
108-67-8	1,3,5-Trimethylbenzene	ND	78	
541-73-1	1,3-Dichlorobenzene	ND	78	
142-28-9	1,3-Dichloropropane	ND	78	
106-46-7	1,4-Dichlorobenzene	ND	78	
594-20-7	2,2-Dichloropropane	ND	78	
78-93-3	2-Butanone (MEK)	ND	78	
95-49-8	2-Chlorotoluene	ND	78	
591-78-6	2-Hexanone	ND	78	
67-64-1	2-Propanone (acetone)	ND	78	
106-43-4	4-Chlorotoluene	ND	78	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	78	
107-13-1	Acrylonitrile	ND	78	
71-43-2	Benzene	ND	78	
108-86-1	Bromobenzene	ND	78	
74-97-5	Bromochloromethane	ND	78	
75-27-4	Bromodichloromethane	ND	78	
75-25-2	Bromoform	ND	78	
74-83-9	Bromomethane	ND	78	
75-15-0	Carbon Disulfide	ND	78	
56-23-5	Carbon tetrachloride	ND	78	
108-90-7	Chlorobenzene	ND	78	
75-00-3	Chloroethane	ND	78	
67-66-3	Chloroform	ND	78	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-06_0-.3	Lab Sample ID:	AB34170
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	7.952 grams	Extract Dilution:	50
Wet Weight Extracted:	10.327 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	78	
124-48-1	Dibromochloromethane	ND	78	
74-95-3	Dibromomethane	ND	78	
75-71-8	Dichlorodifluoromethane	ND	78	
60-29-7	Ethyl Ether	ND	78	
100-41-4	Ethylbenzene	ND	78	
87-68-3	Hexachlorobutadiene	ND	78	
98-82-8	Isopropylbenzene	ND	78	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	78	
75-09-2	Methylene Chloride	ND	78	
104-51-8	N-Butylbenzene	ND	78	
103-65-1	N-Propylbenzene	ND	78	
91-20-3	Naphthalene	ND	78	
95-47-6	Ortho Xylene	ND	78	
99-87-6	Para-Isopropyltoluene	ND	78	
135-98-8	Sec-Butylbenzene	ND	78	
100-42-5	Styrene	ND	78	
98-06-6	Tert-Butylbenzene	ND	78	
127-18-4	Tetrachloroethylene	ND	78	
109-99-9	Tetrahydrofuran	ND	78	
108-88-3	Toluene	ND	78	
156-60-5	Trans-1,2-Dichloroethylene	ND	78	
79-01-6	Trichloroethylene	ND	78	
75-69-4	Trichlorofluoromethane	ND	78	
108-05-4	Vinyl Acetate	ND	78	
75-01-4	Vinyl Chloride	ND	78	
10061-01-5	c-1,3-dichloropropene	ND	78	
156-59-2	cis-1,2-Dichloroethylene	ND	78	
10061-02-6	t-1,3-Dichloropropene	ND	78	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-07_0-.3	Lab Sample ID:	AB34171
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	69%
Dry Weight Extracted:	8.261 grams	Extract Dilution:	50
Wet Weight Extracted:	11.973 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	83	
71-55-6	1,1,1-Trichloroethane	ND	83	
79-34-5	1,1,2,2-Tetrachloroethane	ND	83	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	83	
79-00-5	1,1,2-Trichloroethane	ND	83	
75-35-4	1,1-Dichloroethylene	ND	83	
563-58-6	1,1-Dichloropropene	ND	83	
75-34-3	1,1-dichloroethane	ND	83	
87-61-6	1,2,3-Trichlorobenzene	ND	83	
96-18-4	1,2,3-Trichloropropane	ND	83	
120-82-1	1,2,4-Trichlorobenzene	ND	83	
95-63-6	1,2,4-Trimethylbenzene	ND	83	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	83	
106-93-4	1,2-Dibromoethane	ND	83	
95-50-1	1,2-Dichlorobenzene	ND	83	
107-06-2	1,2-Dichloroethane	ND	83	
78-87-5	1,2-Dichloropropane	ND	83	
108-67-8	1,3,5-Trimethylbenzene	ND	83	
541-73-1	1,3-Dichlorobenzene	ND	83	
142-28-9	1,3-Dichloropropane	ND	83	
106-46-7	1,4-Dichlorobenzene	ND	83	
594-20-7	2,2-Dichloropropane	ND	83	
78-93-3	2-Butanone (MEK)	ND	83	
95-49-8	2-Chlorotoluene	ND	83	
591-78-6	2-Hexanone	ND	83	
67-64-1	2-Propanone (acetone)	ND	83	
106-43-4	4-Chlorotoluene	ND	83	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	83	
107-13-1	Acrylonitrile	ND	83	
71-43-2	Benzene	ND	83	
108-86-1	Bromobenzene	ND	83	
74-97-5	Bromochloromethane	ND	83	
75-27-4	Bromodichloromethane	ND	83	
75-25-2	Bromoform	ND	83	
74-83-9	Bromomethane	ND	83	
75-15-0	Carbon Disulfide	ND	83	
56-23-5	Carbon tetrachloride	ND	83	
108-90-7	Chlorobenzene	ND	83	
75-00-3	Chloroethane	ND	83	
67-66-3	Chloroform	ND	83	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-07_0-.3	Lab Sample ID:	AB34171
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	69%
Dry Weight Extracted:	8.261 grams	Extract Dilution:	50
Wet Weight Extracted:	11.973 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	83	
124-48-1	Dibromochloromethane	ND	83	
74-95-3	Dibromomethane	ND	83	
75-71-8	Dichlorodifluoromethane	ND	83	
60-29-7	Ethyl Ether	ND	83	
100-41-4	Ethylbenzene	ND	83	
87-68-3	Hexachlorobutadiene	ND	83	
98-82-8	Isopropylbenzene	ND	83	
108-38-3/106-42-	M/P Xylene	ND	170	
1634-04-4	Methyl-t-Butyl Ether	ND	83	
75-09-2	Methylene Chloride	ND	83	
104-51-8	N-Butylbenzene	ND	83	
103-65-1	N-Propylbenzene	ND	83	
91-20-3	Naphthalene	ND	83	
95-47-6	Ortho Xylene	ND	83	
99-87-6	Para-Isopropyltoluene	ND	83	
135-98-8	Sec-Butylbenzene	ND	83	
100-42-5	Styrene	ND	83	
98-06-6	Tert-Butylbenzene	ND	83	
127-18-4	Tetrachloroethylene	ND	83	
109-99-9	Tetrahydrofuran	ND	83	
108-88-3	Toluene	ND	83	
156-60-5	Trans-1,2-Dichloroethylene	ND	83	
79-01-6	Trichloroethylene	ND	83	
75-69-4	Trichlorofluoromethane	ND	83	
108-05-4	Vinyl Acetate	ND	83	
75-01-4	Vinyl Chloride	ND	83	
10061-01-5	c-1,3-dichloropropene	ND	83	
156-59-2	cis-1,2-Dichloroethylene	ND	83	
10061-02-6	t-1,3-Dichloropropene	ND	83	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-08_0-.3	Lab Sample ID:	AB34172
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	8.181 grams	Extract Dilution:	50
Wet Weight Extracted:	10.356 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	74	
71-55-6	1,1,1-Trichloroethane	ND	74	
79-34-5	1,1,2,2-Tetrachloroethane	ND	74	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	74	
79-00-5	1,1,2-Trichloroethane	ND	74	
75-35-4	1,1-Dichloroethylene	ND	74	
563-58-6	1,1-Dichloropropene	ND	74	
75-34-3	1,1-dichloroethane	ND	74	
87-61-6	1,2,3-Trichlorobenzene	ND	74	
96-18-4	1,2,3-Trichloropropane	ND	74	
120-82-1	1,2,4-Trichlorobenzene	ND	74	
95-63-6	1,2,4-Trimethylbenzene	ND	74	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	74	
106-93-4	1,2-Dibromoethane	ND	74	
95-50-1	1,2-Dichlorobenzene	ND	74	
107-06-2	1,2-Dichloroethane	ND	74	
78-87-5	1,2-Dichloropropane	ND	74	
108-67-8	1,3,5-Trimethylbenzene	ND	74	
541-73-1	1,3-Dichlorobenzene	ND	74	
142-28-9	1,3-Dichloropropane	ND	74	
106-46-7	1,4-Dichlorobenzene	ND	74	
594-20-7	2,2-Dichloropropane	ND	74	
78-93-3	2-Butanone (MEK)	ND	74	
95-49-8	2-Chlorotoluene	ND	74	
591-78-6	2-Hexanone	ND	74	
67-64-1	2-Propanone (acetone)	ND	74	
106-43-4	4-Chlorotoluene	ND	74	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	74	
107-13-1	Acrylonitrile	ND	74	
71-43-2	Benzene	ND	74	
108-86-1	Bromobenzene	ND	74	
74-97-5	Bromochloromethane	ND	74	
75-27-4	Bromodichloromethane	ND	74	
75-25-2	Bromoform	ND	74	
74-83-9	Bromomethane	ND	74	
75-15-0	Carbon Disulfide	ND	74	
56-23-5	Carbon tetrachloride	ND	74	
108-90-7	Chlorobenzene	ND	74	
75-00-3	Chloroethane	ND	74	
67-66-3	Chloroform	ND	74	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-08_0-.3	Lab Sample ID:	AB34172
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	8.181 grams	Extract Dilution:	50
Wet Weight Extracted:	10.356 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	74	
124-48-1	Dibromochloromethane	ND	74	
74-95-3	Dibromomethane	ND	74	
75-71-8	Dichlorodifluoromethane	ND	74	
60-29-7	Ethyl Ether	ND	74	
100-41-4	Ethylbenzene	ND	74	
87-68-3	Hexachlorobutadiene	ND	74	
98-82-8	Isopropylbenzene	ND	74	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	74	
75-09-2	Methylene Chloride	ND	74	
104-51-8	N-Butylbenzene	ND	74	
103-65-1	N-Propylbenzene	ND	74	
91-20-3	Naphthalene	ND	74	
95-47-6	Ortho Xylene	ND	74	
99-87-6	Para-Isopropyltoluene	ND	74	
135-98-8	Sec-Butylbenzene	ND	74	
100-42-5	Styrene	ND	74	
98-06-6	Tert-Butylbenzene	ND	74	
127-18-4	Tetrachloroethylene	ND	74	
109-99-9	Tetrahydrofuran	ND	74	
108-88-3	Toluene	ND	74	
156-60-5	Trans-1,2-Dichloroethylene	ND	74	
79-01-6	Trichloroethylene	ND	74	
75-69-4	Trichlorofluoromethane	ND	74	
108-05-4	Vinyl Acetate	ND	74	
75-01-4	Vinyl Chloride	ND	74	
10061-01-5	c-1,3-dichloropropene	ND	74	
156-59-2	cis-1,2-Dichloroethylene	ND	74	
10061-02-6	t-1,3-Dichloropropene	ND	74	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	119	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-09_0-.3	Lab Sample ID:	AB34173
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	13.457 grams	Extract Dilution:	50
Wet Weight Extracted:	17.252 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	51	
71-55-6	1,1,1-Trichloroethane	ND	51	
79-34-5	1,1,2,2-Tetrachloroethane	ND	51	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	51	
79-00-5	1,1,2-Trichloroethane	ND	51	
75-35-4	1,1-Dichloroethylene	ND	51	
563-58-6	1,1-Dichloropropene	ND	51	
75-34-3	1,1-dichloroethane	ND	51	
87-61-6	1,2,3-Trichlorobenzene	ND	51	
96-18-4	1,2,3-Trichloropropane	ND	51	
120-82-1	1,2,4-Trichlorobenzene	ND	51	
95-63-6	1,2,4-Trimethylbenzene	ND	51	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	51	
106-93-4	1,2-Dibromoethane	ND	51	
95-50-1	1,2-Dichlorobenzene	ND	51	
107-06-2	1,2-Dichloroethane	ND	51	
78-87-5	1,2-Dichloropropane	ND	51	
108-67-8	1,3,5-Trimethylbenzene	ND	51	
541-73-1	1,3-Dichlorobenzene	ND	51	
142-28-9	1,3-Dichloropropane	ND	51	
106-46-7	1,4-Dichlorobenzene	ND	51	
594-20-7	2,2-Dichloropropane	ND	51	
78-93-3	2-Butanone (MEK)	ND	51	
95-49-8	2-Chlorotoluene	ND	51	
591-78-6	2-Hexanone	ND	51	
67-64-1	2-Propanone (acetone)	ND	51	
106-43-4	4-Chlorotoluene	ND	51	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	51	
107-13-1	Acrylonitrile	ND	51	
71-43-2	Benzene	ND	51	
108-86-1	Bromobenzene	ND	51	
74-97-5	Bromochloromethane	ND	51	
75-27-4	Bromodichloromethane	ND	51	
75-25-2	Bromoform	ND	51	
74-83-9	Bromomethane	ND	51	
75-15-0	Carbon Disulfide	ND	51	
56-23-5	Carbon tetrachloride	ND	51	
108-90-7	Chlorobenzene	ND	51	
75-00-3	Chloroethane	ND	51	
67-66-3	Chloroform	ND	51	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-09_0-.3	Lab Sample ID:	AB34173
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	78%
Dry Weight Extracted:	13.457 grams	Extract Dilution:	50
Wet Weight Extracted:	17.252 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	51	
124-48-1	Dibromochloromethane	ND	51	
74-95-3	Dibromomethane	ND	51	
75-71-8	Dichlorodifluoromethane	ND	51	
60-29-7	Ethyl Ether	ND	51	
100-41-4	Ethylbenzene	ND	51	
87-68-3	Hexachlorobutadiene	ND	51	
98-82-8	Isopropylbenzene	ND	51	
108-38-3/106-42-	M/P Xylene	ND	100	
1634-04-4	Methyl-t-Butyl Ether	ND	51	
75-09-2	Methylene Chloride	ND	51	
104-51-8	N-Butylbenzene	ND	51	
103-65-1	N-Propylbenzene	ND	51	
91-20-3	Naphthalene	ND	51	
95-47-6	Ortho Xylene	ND	51	
99-87-6	Para-Isopropyltoluene	ND	51	
135-98-8	Sec-Butylbenzene	ND	51	
100-42-5	Styrene	ND	51	
98-06-6	Tert-Butylbenzene	ND	51	
127-18-4	Tetrachloroethylene	ND	51	
109-99-9	Tetrahydrofuran	ND	51	
108-88-3	Toluene	ND	51	
156-60-5	Trans-1,2-Dichloroethylene	ND	51	
79-01-6	Trichloroethylene	ND	51	
75-69-4	Trichlorofluoromethane	ND	51	
108-05-4	Vinyl Acetate	ND	51	
75-01-4	Vinyl Chloride	ND	51	
10061-01-5	c-1,3-dichloropropene	ND	51	
156-59-2	cis-1,2-Dichloroethylene	ND	51	
10061-02-6	t-1,3-Dichloropropene	ND	51	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-10_0-.3	Lab Sample ID:	AB34174
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	7.629 grams	Extract Dilution:	50
Wet Weight Extracted:	9.657 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	79	
71-55-6	1,1,1-Trichloroethane	ND	79	
79-34-5	1,1,2,2-Tetrachloroethane	ND	79	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	79	
79-00-5	1,1,2-Trichloroethane	ND	79	
75-35-4	1,1-Dichloroethylene	ND	79	
563-58-6	1,1-Dichloropropene	ND	79	
75-34-3	1,1-dichloroethane	ND	79	
87-61-6	1,2,3-Trichlorobenzene	ND	79	
96-18-4	1,2,3-Trichloropropane	ND	79	
120-82-1	1,2,4-Trichlorobenzene	ND	79	
95-63-6	1,2,4-Trimethylbenzene	ND	79	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	79	
106-93-4	1,2-Dibromoethane	ND	79	
95-50-1	1,2-Dichlorobenzene	ND	79	
107-06-2	1,2-Dichloroethane	ND	79	
78-87-5	1,2-Dichloropropane	ND	79	
108-67-8	1,3,5-Trimethylbenzene	ND	79	
541-73-1	1,3-Dichlorobenzene	ND	79	
142-28-9	1,3-Dichloropropane	ND	79	
106-46-7	1,4-Dichlorobenzene	ND	79	
594-20-7	2,2-Dichloropropane	ND	79	
78-93-3	2-Butanone (MEK)	ND	79	
95-49-8	2-Chlorotoluene	ND	79	
591-78-6	2-Hexanone	ND	79	
67-64-1	2-Propanone (acetone)	ND	79	
106-43-4	4-Chlorotoluene	ND	79	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	79	
107-13-1	Acrylonitrile	ND	79	
71-43-2	Benzene	ND	79	
108-86-1	Bromobenzene	ND	79	
74-97-5	Bromochloromethane	ND	79	
75-27-4	Bromodichloromethane	ND	79	
75-25-2	Bromoform	ND	79	
74-83-9	Bromomethane	ND	79	
75-15-0	Carbon Disulfide	ND	79	
56-23-5	Carbon tetrachloride	ND	79	
108-90-7	Chlorobenzene	ND	79	
75-00-3	Chloroethane	ND	79	
67-66-3	Chloroform	ND	79	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-10_0-.3	Lab Sample ID:	AB34174
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	79%
Dry Weight Extracted:	7.629 grams	Extract Dilution:	50
Wet Weight Extracted:	9.657 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	79	
124-48-1	Dibromochloromethane	ND	79	
74-95-3	Dibromomethane	ND	79	
75-71-8	Dichlorodifluoromethane	ND	79	
60-29-7	Ethyl Ether	ND	79	
100-41-4	Ethylbenzene	ND	79	
87-68-3	Hexachlorobutadiene	ND	79	
98-82-8	Isopropylbenzene	ND	79	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	79	
75-09-2	Methylene Chloride	ND	79	
104-51-8	N-Butylbenzene	ND	79	
103-65-1	N-Propylbenzene	ND	79	
91-20-3	Naphthalene	ND	79	
95-47-6	Ortho Xylene	ND	79	
99-87-6	Para-Isopropyltoluene	ND	79	
135-98-8	Sec-Butylbenzene	ND	79	
100-42-5	Styrene	ND	79	
98-06-6	Tert-Butylbenzene	ND	79	
127-18-4	Tetrachloroethylene	ND	79	
109-99-9	Tetrahydrofuran	ND	79	
108-88-3	Toluene	ND	79	
156-60-5	Trans-1,2-Dichloroethylene	ND	79	
79-01-6	Trichloroethylene	ND	79	
75-69-4	Trichlorofluoromethane	ND	79	
108-05-4	Vinyl Acetate	ND	79	
75-01-4	Vinyl Chloride	ND	79	
10061-01-5	c-1,3-dichloropropene	ND	79	
156-59-2	cis-1,2-Dichloroethylene	ND	79	
10061-02-6	t-1,3-Dichloropropene	ND	79	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	117	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-11_0-.3	Lab Sample ID:	AB34175
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	42%
Dry Weight Extracted:	4.568 grams	Extract Dilution:	50
Wet Weight Extracted:	10.876 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	180	
71-55-6	1,1,1-Trichloroethane	ND	180	
79-34-5	1,1,2,2-Tetrachloroethane	ND	180	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	180	
79-00-5	1,1,2-Trichloroethane	ND	180	
75-35-4	1,1-Dichloroethylene	ND	180	
563-58-6	1,1-Dichloropropene	ND	180	
75-34-3	1,1-dichloroethane	ND	180	
87-61-6	1,2,3-Trichlorobenzene	ND	180	
96-18-4	1,2,3-Trichloropropane	ND	180	
120-82-1	1,2,4-Trichlorobenzene	ND	180	
95-63-6	1,2,4-Trimethylbenzene	ND	180	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	180	
106-93-4	1,2-Dibromoethane	ND	180	
95-50-1	1,2-Dichlorobenzene	ND	180	
107-06-2	1,2-Dichloroethane	ND	180	
78-87-5	1,2-Dichloropropane	ND	180	
108-67-8	1,3,5-Trimethylbenzene	ND	180	
541-73-1	1,3-Dichlorobenzene	ND	180	
142-28-9	1,3-Dichloropropane	ND	180	
106-46-7	1,4-Dichlorobenzene	ND	180	
594-20-7	2,2-Dichloropropane	ND	180	
78-93-3	2-Butanone (MEK)	ND	180	
95-49-8	2-Chlorotoluene	ND	180	
591-78-6	2-Hexanone	ND	180	
67-64-1	2-Propanone (acetone)	ND	180	
106-43-4	4-Chlorotoluene	ND	180	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	180	
107-13-1	Acrylonitrile	ND	180	
71-43-2	Benzene	ND	180	
108-86-1	Bromobenzene	ND	180	
74-97-5	Bromochloromethane	ND	180	
75-27-4	Bromodichloromethane	ND	180	
75-25-2	Bromoform	ND	180	
74-83-9	Bromomethane	ND	180	
75-15-0	Carbon Disulfide	ND	180	
56-23-5	Carbon tetrachloride	ND	180	
108-90-7	Chlorobenzene	ND	180	
75-00-3	Chloroethane	ND	180	
67-66-3	Chloroform	ND	180	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-11_0-.3	Lab Sample ID:	AB34175
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	42%
Dry Weight Extracted:	4.568 grams	Extract Dilution:	50
Wet Weight Extracted:	10.876 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	180	
124-48-1	Dibromochloromethane	ND	180	
74-95-3	Dibromomethane	ND	180	
75-71-8	Dichlorodifluoromethane	ND	180	
60-29-7	Ethyl Ether	ND	180	
100-41-4	Ethylbenzene	ND	180	
87-68-3	Hexachlorobutadiene	ND	180	
98-82-8	Isopropylbenzene	ND	180	
108-38-3/106-42-	M/P Xylene	ND	360	
1634-04-4	Methyl-t-Butyl Ether	ND	180	
75-09-2	Methylene Chloride	ND	180	
104-51-8	N-Butylbenzene	ND	180	
103-65-1	N-Propylbenzene	ND	180	
91-20-3	Naphthalene	ND	180	
95-47-6	Ortho Xylene	ND	180	
99-87-6	Para-Isopropyltoluene	ND	180	
135-98-8	Sec-Butylbenzene	ND	180	
100-42-5	Styrene	ND	180	
98-06-6	Tert-Butylbenzene	ND	180	
127-18-4	Tetrachloroethylene	ND	180	
109-99-9	Tetrahydrofuran	ND	180	
108-88-3	Toluene	ND	180	
156-60-5	Trans-1,2-Dichloroethylene	ND	180	
79-01-6	Trichloroethylene	ND	180	
75-69-4	Trichlorofluoromethane	ND	180	
108-05-4	Vinyl Acetate	ND	180	
75-01-4	Vinyl Chloride	ND	180	
10061-01-5	c-1,3-dichloropropene	ND	180	
156-59-2	cis-1,2-Dichloroethylene	ND	180	
10061-02-6	t-1,3-Dichloropropene	ND	180	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-12_0-.3	Lab Sample ID:	AB34176
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	41%
Dry Weight Extracted:	5.156 grams	Extract Dilution:	50
Wet Weight Extracted:	12.576 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	170	
71-55-6	1,1,1-Trichloroethane	ND	170	
79-34-5	1,1,2,2-Tetrachloroethane	ND	170	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	170	
79-00-5	1,1,2-Trichloroethane	ND	170	
75-35-4	1,1-Dichloroethylene	ND	170	
563-58-6	1,1-Dichloropropene	ND	170	
75-34-3	1,1-dichloroethane	ND	170	
87-61-6	1,2,3-Trichlorobenzene	ND	170	
96-18-4	1,2,3-Trichloropropane	ND	170	
120-82-1	1,2,4-Trichlorobenzene	ND	170	
95-63-6	1,2,4-Trimethylbenzene	ND	170	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	170	
106-93-4	1,2-Dibromoethane	ND	170	
95-50-1	1,2-Dichlorobenzene	ND	170	
107-06-2	1,2-Dichloroethane	ND	170	
78-87-5	1,2-Dichloropropane	ND	170	
108-67-8	1,3,5-Trimethylbenzene	ND	170	
541-73-1	1,3-Dichlorobenzene	ND	170	
142-28-9	1,3-Dichloropropane	ND	170	
106-46-7	1,4-Dichlorobenzene	ND	170	
594-20-7	2,2-Dichloropropane	ND	170	
78-93-3	2-Butanone (MEK)	ND	170	
95-49-8	2-Chlorotoluene	ND	170	
591-78-6	2-Hexanone	ND	170	
67-64-1	2-Propanone (acetone)	ND	170	
106-43-4	4-Chlorotoluene	ND	170	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	170	
107-13-1	Acrylonitrile	ND	170	
71-43-2	Benzene	ND	170	
108-86-1	Bromobenzene	ND	170	
74-97-5	Bromochloromethane	ND	170	
75-27-4	Bromodichloromethane	ND	170	
75-25-2	Bromoform	ND	170	
74-83-9	Bromomethane	ND	170	
75-15-0	Carbon Disulfide	ND	170	
56-23-5	Carbon tetrachloride	ND	170	
108-90-7	Chlorobenzene	ND	170	
75-00-3	Chloroethane	ND	170	
67-66-3	Chloroform	ND	170	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-12_0-.3	Lab Sample ID:	AB34176
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	41%
Dry Weight Extracted:	5.156 grams	Extract Dilution:	50
Wet Weight Extracted:	12.576 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	170	
124-48-1	Dibromochloromethane	ND	170	
74-95-3	Dibromomethane	ND	170	
75-71-8	Dichlorodifluoromethane	ND	170	
60-29-7	Ethyl Ether	ND	170	
100-41-4	Ethylbenzene	ND	170	
87-68-3	Hexachlorobutadiene	ND	170	
98-82-8	Isopropylbenzene	ND	170	
108-38-3/106-42-	M/P Xylene	ND	340	
1634-04-4	Methyl-t-Butyl Ether	ND	170	
75-09-2	Methylene Chloride	ND	170	
104-51-8	N-Butylbenzene	ND	170	
103-65-1	N-Propylbenzene	ND	170	
91-20-3	Naphthalene	ND	170	
95-47-6	Ortho Xylene	ND	170	
99-87-6	Para-Isopropyltoluene	ND	170	
135-98-8	Sec-Butylbenzene	ND	170	
100-42-5	Styrene	ND	170	
98-06-6	Tert-Butylbenzene	ND	170	
127-18-4	Tetrachloroethylene	ND	170	
109-99-9	Tetrahydrofuran	ND	170	
108-88-3	Toluene	ND	170	
156-60-5	Trans-1,2-Dichloroethylene	ND	170	
79-01-6	Trichloroethylene	ND	170	
75-69-4	Trichlorofluoromethane	ND	170	
108-05-4	Vinyl Acetate	ND	170	
75-01-4	Vinyl Chloride	ND	170	
10061-01-5	c-1,3-dichloropropene	ND	170	
156-59-2	cis-1,2-Dichloroethylene	ND	170	
10061-02-6	t-1,3-Dichloropropene	ND	170	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-13_0-.3	Lab Sample ID:	AB34177
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	49%
Dry Weight Extracted:	5.923 grams	Extract Dilution:	50
Wet Weight Extracted:	12.088 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	140	
71-55-6	1,1,1-Trichloroethane	ND	140	
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	140	
79-00-5	1,1,2-Trichloroethane	ND	140	
75-35-4	1,1-Dichloroethylene	ND	140	
563-58-6	1,1-Dichloropropene	ND	140	
75-34-3	1,1-dichloroethane	ND	140	
87-61-6	1,2,3-Trichlorobenzene	ND	140	
96-18-4	1,2,3-Trichloropropane	ND	140	
120-82-1	1,2,4-Trichlorobenzene	ND	140	
95-63-6	1,2,4-Trimethylbenzene	ND	140	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	140	
106-93-4	1,2-Dibromoethane	ND	140	
95-50-1	1,2-Dichlorobenzene	ND	140	
107-06-2	1,2-Dichloroethane	ND	140	
78-87-5	1,2-Dichloropropane	ND	140	
108-67-8	1,3,5-Trimethylbenzene	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	140	
142-28-9	1,3-Dichloropropane	ND	140	
106-46-7	1,4-Dichlorobenzene	ND	140	
594-20-7	2,2-Dichloropropane	ND	140	
78-93-3	2-Butanone (MEK)	ND	140	
95-49-8	2-Chlorotoluene	ND	140	
591-78-6	2-Hexanone	ND	140	
67-64-1	2-Propanone (acetone)	ND	140	
106-43-4	4-Chlorotoluene	ND	140	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	140	
107-13-1	Acrylonitrile	ND	140	
71-43-2	Benzene	ND	140	
108-86-1	Bromobenzene	ND	140	
74-97-5	Bromochloromethane	ND	140	
75-27-4	Bromodichloromethane	ND	140	
75-25-2	Bromoform	ND	140	
74-83-9	Bromomethane	ND	140	
75-15-0	Carbon Disulfide	ND	140	
56-23-5	Carbon tetrachloride	ND	140	
108-90-7	Chlorobenzene	ND	140	
75-00-3	Chloroethane	ND	140	
67-66-3	Chloroform	ND	140	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-13_0-.3	Lab Sample ID:	AB34177
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	49%
Dry Weight Extracted:	5.923 grams	Extract Dilution:	50
Wet Weight Extracted:	12.088 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	140	
124-48-1	Dibromochloromethane	ND	140	
74-95-3	Dibromomethane	ND	140	
75-71-8	Dichlorodifluoromethane	ND	140	
60-29-7	Ethyl Ether	ND	140	
100-41-4	Ethylbenzene	ND	140	
87-68-3	Hexachlorobutadiene	ND	140	
98-82-8	Isopropylbenzene	ND	140	
108-38-3/106-42-	M/P Xylene	ND	280	
1634-04-4	Methyl-t-Butyl Ether	ND	140	
75-09-2	Methylene Chloride	ND	140	
104-51-8	N-Butylbenzene	ND	140	
103-65-1	N-Propylbenzene	ND	140	
91-20-3	Naphthalene	ND	140	
95-47-6	Ortho Xylene	ND	140	
99-87-6	Para-Isopropyltoluene	ND	140	
135-98-8	Sec-Butylbenzene	ND	140	
100-42-5	Styrene	ND	140	
98-06-6	Tert-Butylbenzene	ND	140	
127-18-4	Tetrachloroethylene	ND	140	
109-99-9	Tetrahydrofuran	ND	140	
108-88-3	Toluene	ND	140	
156-60-5	Trans-1,2-Dichloroethylene	ND	140	
79-01-6	Trichloroethylene	ND	140	
75-69-4	Trichlorofluoromethane	ND	140	
108-05-4	Vinyl Acetate	ND	140	
75-01-4	Vinyl Chloride	ND	140	
10061-01-5	c-1,3-dichloropropene	ND	140	
156-59-2	cis-1,2-Dichloroethylene	ND	140	
10061-02-6	t-1,3-Dichloropropene	ND	140	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	84	78 - 111
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-14_0-.3	Lab Sample ID:	AB34178
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	62%
Dry Weight Extracted:	7.248 grams	Extract Dilution:	50
Wet Weight Extracted:	11.690 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	
71-55-6	1,1,1-Trichloroethane	ND	100	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	100	
79-00-5	1,1,2-Trichloroethane	ND	100	
75-35-4	1,1-Dichloroethylene	ND	100	
563-58-6	1,1-Dichloropropene	ND	100	
75-34-3	1,1-dichloroethane	ND	100	
87-61-6	1,2,3-Trichlorobenzene	ND	100	
96-18-4	1,2,3-Trichloropropane	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	100	
95-63-6	1,2,4-Trimethylbenzene	ND	100	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	100	
106-93-4	1,2-Dibromoethane	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	100	
107-06-2	1,2-Dichloroethane	ND	100	
78-87-5	1,2-Dichloropropane	ND	100	
108-67-8	1,3,5-Trimethylbenzene	ND	100	
541-73-1	1,3-Dichlorobenzene	ND	100	
142-28-9	1,3-Dichloropropane	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	100	
594-20-7	2,2-Dichloropropane	ND	100	
78-93-3	2-Butanone (MEK)	ND	100	
95-49-8	2-Chlorotoluene	ND	100	
591-78-6	2-Hexanone	ND	100	
67-64-1	2-Propanone (acetone)	ND	100	
106-43-4	4-Chlorotoluene	ND	100	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	100	
107-13-1	Acrylonitrile	ND	100	
71-43-2	Benzene	ND	100	
108-86-1	Bromobenzene	ND	100	
74-97-5	Bromochloromethane	ND	100	
75-27-4	Bromodichloromethane	ND	100	
75-25-2	Bromoform	ND	100	
74-83-9	Bromomethane	ND	100	
75-15-0	Carbon Disulfide	ND	100	
56-23-5	Carbon tetrachloride	ND	100	
108-90-7	Chlorobenzene	ND	100	
75-00-3	Chloroethane	ND	100	
67-66-3	Chloroform	ND	100	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-14_0-.3	Lab Sample ID:	AB34178
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	62%
Dry Weight Extracted:	7.248 grams	Extract Dilution:	50
Wet Weight Extracted:	11.690 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	100	
124-48-1	Dibromochloromethane	ND	100	
74-95-3	Dibromomethane	ND	100	
75-71-8	Dichlorodifluoromethane	ND	100	
60-29-7	Ethyl Ether	ND	100	
100-41-4	Ethylbenzene	ND	100	
87-68-3	Hexachlorobutadiene	ND	100	
98-82-8	Isopropylbenzene	ND	100	
108-38-3/106-42-	M/P Xylene	ND	200	
1634-04-4	Methyl-t-Butyl Ether	ND	100	
75-09-2	Methylene Chloride	ND	100	
104-51-8	N-Butylbenzene	ND	100	
103-65-1	N-Propylbenzene	ND	100	
91-20-3	Naphthalene	ND	100	
95-47-6	Ortho Xylene	ND	100	
99-87-6	Para-Isopropyltoluene	ND	100	
135-98-8	Sec-Butylbenzene	ND	100	
100-42-5	Styrene	ND	100	
98-06-6	Tert-Butylbenzene	ND	100	
127-18-4	Tetrachloroethylene	ND	100	
109-99-9	Tetrahydrofuran	ND	100	
108-88-3	Toluene	ND	100	
156-60-5	Trans-1,2-Dichloroethylene	ND	100	
79-01-6	Trichloroethylene	ND	100	
75-69-4	Trichlorofluoromethane	ND	100	
108-05-4	Vinyl Acetate	ND	100	
75-01-4	Vinyl Chloride	ND	100	
10061-01-5	c-1,3-dichloropropene	ND	100	
156-59-2	cis-1,2-Dichloroethylene	ND	100	
10061-02-6	t-1,3-Dichloropropene	ND	100	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	118	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-15_0-.3	Lab Sample ID:	AB34179
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	66%
Dry Weight Extracted:	8.188 grams	Extract Dilution:	50
Wet Weight Extracted:	12.406 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	87	
71-55-6	1,1,1-Trichloroethane	ND	87	
79-34-5	1,1,2,2-Tetrachloroethane	ND	87	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	87	
79-00-5	1,1,2-Trichloroethane	ND	87	
75-35-4	1,1-Dichloroethylene	ND	87	
563-58-6	1,1-Dichloropropene	ND	87	
75-34-3	1,1-dichloroethane	ND	87	
87-61-6	1,2,3-Trichlorobenzene	ND	87	
96-18-4	1,2,3-Trichloropropane	ND	87	
120-82-1	1,2,4-Trichlorobenzene	ND	87	
95-63-6	1,2,4-Trimethylbenzene	ND	87	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	87	
106-93-4	1,2-Dibromoethane	ND	87	
95-50-1	1,2-Dichlorobenzene	ND	87	
107-06-2	1,2-Dichloroethane	ND	87	
78-87-5	1,2-Dichloropropane	ND	87	
108-67-8	1,3,5-Trimethylbenzene	ND	87	
541-73-1	1,3-Dichlorobenzene	ND	87	
142-28-9	1,3-Dichloropropane	ND	87	
106-46-7	1,4-Dichlorobenzene	ND	87	
594-20-7	2,2-Dichloropropane	ND	87	
78-93-3	2-Butanone (MEK)	ND	87	
95-49-8	2-Chlorotoluene	ND	87	
591-78-6	2-Hexanone	ND	87	
67-64-1	2-Propanone (acetone)	ND	87	
106-43-4	4-Chlorotoluene	ND	87	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	87	
107-13-1	Acrylonitrile	ND	87	
71-43-2	Benzene	ND	87	
108-86-1	Bromobenzene	ND	87	
74-97-5	Bromochloromethane	ND	87	
75-27-4	Bromodichloromethane	ND	87	
75-25-2	Bromoform	ND	87	
74-83-9	Bromomethane	ND	87	
75-15-0	Carbon Disulfide	ND	87	
56-23-5	Carbon tetrachloride	ND	87	
108-90-7	Chlorobenzene	ND	87	
75-00-3	Chloroethane	ND	87	
67-66-3	Chloroform	ND	87	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-15_0-.3	Lab Sample ID:	AB34179
Date of Collection:	10/8/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	66%
Dry Weight Extracted:	8.188 grams	Extract Dilution:	50
Wet Weight Extracted:	12.406 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	87	
124-48-1	Dibromochloromethane	ND	87	
74-95-3	Dibromomethane	ND	87	
75-71-8	Dichlorodifluoromethane	ND	87	
60-29-7	Ethyl Ether	ND	87	
100-41-4	Ethylbenzene	ND	87	
87-68-3	Hexachlorobutadiene	ND	87	
98-82-8	Isopropylbenzene	ND	87	
108-38-3/106-42-	M/P Xylene	ND	170	
1634-04-4	Methyl-t-Butyl Ether	ND	87	
75-09-2	Methylene Chloride	ND	87	
104-51-8	N-Butylbenzene	ND	87	
103-65-1	N-Propylbenzene	ND	87	
91-20-3	Naphthalene	ND	87	
95-47-6	Ortho Xylene	ND	87	
99-87-6	Para-Isopropyltoluene	ND	87	
135-98-8	Sec-Butylbenzene	ND	87	
100-42-5	Styrene	ND	87	
98-06-6	Tert-Butylbenzene	ND	87	
127-18-4	Tetrachloroethylene	ND	87	
109-99-9	Tetrahydrofuran	ND	87	
108-88-3	Toluene	ND	87	
156-60-5	Trans-1,2-Dichloroethylene	ND	87	
79-01-6	Trichloroethylene	ND	87	
75-69-4	Trichlorofluoromethane	ND	87	
108-05-4	Vinyl Acetate	ND	87	
75-01-4	Vinyl Chloride	ND	87	
10061-01-5	c-1,3-dichloropropene	ND	87	
156-59-2	cis-1,2-Dichloroethylene	ND	87	
10061-02-6	t-1,3-Dichloropropene	ND	87	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	84	78 - 111
1,2-Dichloroethane-D4	118	74 - 136
Toluene-D8	94	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-16_0-.3	Lab Sample ID:	AB34180
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	9.787 grams	Extract Dilution:	50
Wet Weight Extracted:	12.710 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	66	
71-55-6	1,1,1-Trichloroethane	ND	66	
79-34-5	1,1,2,2-Tetrachloroethane	ND	66	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	66	
79-00-5	1,1,2-Trichloroethane	ND	66	
75-35-4	1,1-Dichloroethylene	ND	66	
563-58-6	1,1-Dichloropropene	ND	66	
75-34-3	1,1-dichloroethane	ND	66	
87-61-6	1,2,3-Trichlorobenzene	ND	66	
96-18-4	1,2,3-Trichloropropane	ND	66	
120-82-1	1,2,4-Trichlorobenzene	ND	66	
95-63-6	1,2,4-Trimethylbenzene	ND	66	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	66	
106-93-4	1,2-Dibromoethane	ND	66	
95-50-1	1,2-Dichlorobenzene	ND	66	
107-06-2	1,2-Dichloroethane	ND	66	
78-87-5	1,2-Dichloropropane	ND	66	
108-67-8	1,3,5-Trimethylbenzene	ND	66	
541-73-1	1,3-Dichlorobenzene	ND	66	
142-28-9	1,3-Dichloropropane	ND	66	
106-46-7	1,4-Dichlorobenzene	ND	66	
594-20-7	2,2-Dichloropropane	ND	66	
78-93-3	2-Butanone (MEK)	ND	66	
95-49-8	2-Chlorotoluene	ND	66	
591-78-6	2-Hexanone	ND	66	
67-64-1	2-Propanone (acetone)	ND	66	
106-43-4	4-Chlorotoluene	ND	66	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	66	
107-13-1	Acrylonitrile	ND	66	
71-43-2	Benzene	ND	66	
108-86-1	Bromobenzene	ND	66	
74-97-5	Bromochloromethane	ND	66	
75-27-4	Bromodichloromethane	ND	66	
75-25-2	Bromoform	ND	66	
74-83-9	Bromomethane	ND	66	
75-15-0	Carbon Disulfide	ND	66	
56-23-5	Carbon tetrachloride	ND	66	
108-90-7	Chlorobenzene	ND	66	
75-00-3	Chloroethane	ND	66	
67-66-3	Chloroform	ND	66	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SED-16_0-.3	Lab Sample ID:	AB34180
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	77%
Dry Weight Extracted:	9.787 grams	Extract Dilution:	50
Wet Weight Extracted:	12.710 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	66	
124-48-1	Dibromochloromethane	ND	66	
74-95-3	Dibromomethane	ND	66	
75-71-8	Dichlorodifluoromethane	ND	66	
60-29-7	Ethyl Ether	ND	66	
100-41-4	Ethylbenzene	ND	66	
87-68-3	Hexachlorobutadiene	ND	66	
98-82-8	Isopropylbenzene	ND	66	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	66	
75-09-2	Methylene Chloride	ND	66	
104-51-8	N-Butylbenzene	ND	66	
103-65-1	N-Propylbenzene	ND	66	
91-20-3	Naphthalene	ND	66	
95-47-6	Ortho Xylene	ND	66	
99-87-6	Para-Isopropyltoluene	ND	66	
135-98-8	Sec-Butylbenzene	ND	66	
100-42-5	Styrene	ND	66	
98-06-6	Tert-Butylbenzene	ND	66	
127-18-4	Tetrachloroethylene	ND	66	
109-99-9	Tetrahydrofuran	ND	66	
108-88-3	Toluene	ND	66	
156-60-5	Trans-1,2-Dichloroethylene	ND	66	
79-01-6	Trichloroethylene	ND	66	
75-69-4	Trichlorofluoromethane	ND	66	
108-05-4	Vinyl Acetate	ND	66	
75-01-4	Vinyl Chloride	ND	66	
10061-01-5	c-1,3-dichloropropene	ND	66	
156-59-2	cis-1,2-Dichloroethylene	ND	66	
10061-02-6	t-1,3-Dichloropropene	ND	66	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	84	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	96	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	OW-211	Lab Sample ID:	AB34181
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	55%
Dry Weight Extracted:	6.330 grams	Extract Dilution:	50
Wet Weight Extracted:	11.509 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	120	
71-55-6	1,1,1-Trichloroethane	ND	120	
79-34-5	1,1,2,2-Tetrachloroethane	ND	120	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	120	
79-00-5	1,1,2-Trichloroethane	ND	120	
75-35-4	1,1-Dichloroethylene	ND	120	
563-58-6	1,1-Dichloropropene	ND	120	
75-34-3	1,1-dichloroethane	ND	120	
87-61-6	1,2,3-Trichlorobenzene	ND	120	
96-18-4	1,2,3-Trichloropropane	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-63-6	1,2,4-Trimethylbenzene	ND	120	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	120	
106-93-4	1,2-Dibromoethane	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
107-06-2	1,2-Dichloroethane	ND	120	
78-87-5	1,2-Dichloropropane	ND	120	
108-67-8	1,3,5-Trimethylbenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
142-28-9	1,3-Dichloropropane	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
594-20-7	2,2-Dichloropropane	ND	120	
78-93-3	2-Butanone (MEK)	ND	120	
95-49-8	2-Chlorotoluene	ND	120	
591-78-6	2-Hexanone	ND	120	
67-64-1	2-Propanone (acetone)	ND	120	
106-43-4	4-Chlorotoluene	ND	120	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	120	
107-13-1	Acrylonitrile	ND	120	
71-43-2	Benzene	ND	120	
108-86-1	Bromobenzene	ND	120	
74-97-5	Bromochloromethane	ND	120	
75-27-4	Bromodichloromethane	ND	120	
75-25-2	Bromoform	ND	120	
74-83-9	Bromomethane	ND	120	
75-15-0	Carbon Disulfide	ND	120	
56-23-5	Carbon tetrachloride	ND	120	
108-90-7	Chlorobenzene	ND	120	
75-00-3	Chloroethane	ND	120	
67-66-3	Chloroform	ND	120	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	OW-211	Lab Sample ID:	AB34181
Date of Collection:	10/9/2012	Matrix	Sediment
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	55%
Dry Weight Extracted:	6.330 grams	Extract Dilution:	50
Wet Weight Extracted:	11.509 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	120	
124-48-1	Dibromochloromethane	ND	120	
74-95-3	Dibromomethane	ND	120	
75-71-8	Dichlorodifluoromethane	ND	120	
60-29-7	Ethyl Ether	ND	120	
100-41-4	Ethylbenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
98-82-8	Isopropylbenzene	ND	120	
108-38-3/106-42-	M/P Xylene	ND	240	
1634-04-4	Methyl-t-Butyl Ether	ND	120	
75-09-2	Methylene Chloride	ND	120	
104-51-8	N-Butylbenzene	ND	120	
103-65-1	N-Propylbenzene	ND	120	
91-20-3	Naphthalene	ND	120	
95-47-6	Ortho Xylene	ND	120	
99-87-6	Para-Isopropyltoluene	ND	120	
135-98-8	Sec-Butylbenzene	ND	120	
100-42-5	Styrene	ND	120	
98-06-6	Tert-Butylbenzene	ND	120	
127-18-4	Tetrachloroethylene	ND	120	
109-99-9	Tetrahydrofuran	ND	120	
108-88-3	Toluene	ND	120	
156-60-5	Trans-1,2-Dichloroethylene	ND	120	
79-01-6	Trichloroethylene	ND	120	
75-69-4	Trichlorofluoromethane	ND	120	
108-05-4	Vinyl Acetate	ND	120	
75-01-4	Vinyl Chloride	ND	120	
10061-01-5	c-1,3-dichloropropene	ND	120	
156-59-2	cis-1,2-Dichloroethylene	ND	120	
10061-02-6	t-1,3-Dichloropropene	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	84	78 - 111
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	95	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MLV0077	Lab Sample ID:	AB34184
Date of Collection:	10/11/2012	Matrix	PE
Date of Extraction:	10/11/12	Amount Prepared	5 mL
Date of Analysis:	10/11/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	ND	50	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	**1500**	50	
87-61-6	1,2,3-Trichlorobenzene	**2000**	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	**5200**	500	
106-93-4	1,2-Dibromoethane	ND	50	
95-50-1	1,2-Dichlorobenzene	**2800**	50	
107-06-2	1,2-Dichloroethane	**3500**	50	
78-87-5	1,2-Dichloropropane	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	**4800**	50	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	**3000**	50	
67-64-1	2-Propanone (acetone)	**2600**	50	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	**5700**	500	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	**8100**	500	
108-86-1	Bromobenzene	**2800**	50	
74-97-5	Bromochloromethane	**2800**	50	
75-27-4	Bromodichloromethane	**4700**	50	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	**1200**	50	
108-90-7	Chlorobenzene	**3500**	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	**4100**	50	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MLV0077	Lab Sample ID:	AB34184
Date of Collection:	10/11/2012	Matrix	PE
Date of Extraction:	10/11/12	Amount Prepared	5 mL
Date of Analysis:	10/11/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	**2500**	50	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	**1300**	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	ND	50	
108-38-3/106-42-	M/P Xylene	**3700**	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	**5800**	500	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	**2200**	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	**5900**	500	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	**1400**	50	
156-60-5	Trans-1,2-Dichloroethylene	**1900**	50	
79-01-6	Trichloroethylene	**5400**	500	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	**4000**	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	101	74 - 136
Toluene-D8	104	85 - 118

Comments: The concentration(s) reported for methylene chloride, benzene, trichloroethylene, 4-methyl-2-pentanone (MIBK), tetrachloroethylene, and 1,2-dibromo-3-chloropropane are reported from a five-hundred fold dilution.

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	PE
Date of Extraction:	10/11/12	Amount Prepared	5 mL
Date of Analysis:	10/11/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.4**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	PE
Date of Extraction:	10/11/12	Amount Prepared	5 mL
Date of Analysis:	10/11/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	86	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34184.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB34165

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,978	ND	2100	110	74 - 124
1,1,1-Trichloroethane	1,978	ND	2000	100	76 - 132
1,1,2,2-Tetrachloroethane	1,978	ND	2100	110	69 - 125
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,978	ND	2000	100	68 - 144
1,1,2-Trichloroethane	1,978	ND	2100	110	75 - 126
1,1-Dichloroethylene	1,978	ND	1900	96	65 - 140
1,1-Dichloropropene	1,978	ND	2000	100	81 - 125
1,1-dichloroethane	1,978	ND	2000	100	77 - 130
1,2,3-Trichlorobenzene	1,978	ND	2000	100	64 - 125
1,2,3-Trichloropropane	1,978	ND	2000	100	68 - 122
1,2,4-Trichlorobenzene	1,978	ND	2000	100	72 - 120
1,2,4-Trimethylbenzene	1,978	ND	2100	110	81 - 125
1,2-Dibromo-3-Chloropropane	1,978	ND	1800	91	54 - 125
1,2-Dibromoethane	1,978	ND	2000	100	73 - 124
1,2-Dichlorobenzene	1,978	ND	2000	100	81 - 116
1,2-Dichloroethane	1,978	ND	2000	100	74 - 130
1,2-Dichloropropane	1,978	ND	2000	100	78 - 120
1,3,5-Trimethylbenzene	1,978	ND	2100	110	81 - 125
1,3-Dichlorobenzene	1,978	ND	2000	100	82 - 117
1,3-Dichloropropane	1,978	ND	2100	110	76 - 123
1,4-Dichlorobenzene	1,978	ND	1900	96	80 - 116
2,2-Dichloropropane	1,978	ND	2000	100	57 - 147
2-Butanone (MEK)	1,978	ND	2100	110	41 - 151
2-Chlorotoluene	1,978	ND	2000	100	82 - 119
2-Hexanone	1,978	ND	2100	110	51 - 148
2-Propanone (acetone)	1,978	ND	2000	100	25 - 161
4-Chlorotoluene	1,978	ND	2000	100	82 - 119
4-Methyl-2-Pentanone(MIBK)	1,978	ND	2000	100	62 - 130
Acrylonitrile	1,978	ND	2000	100	67 - 130
Benzene	1,978	ND	2000	100	82 - 124
Bromobenzene	1,978	ND	1900	96	79 - 119
Bromochloromethane	1,978	ND	2000	100	79 - 125
Bromodichloromethane	1,978	ND	2000	100	71 - 126
Bromoform	1,978	ND	1700	86	56 - 119
Bromomethane	1,978	ND	1600	81	37 - 161
Carbon Disulfide	1,978	ND	1900	96	63 - 134
Carbon tetrachloride	1,978	ND	2000	100	68 - 136
Chlorobenzene	1,978	ND	2000	100	82 - 126
Chloroethane	1,978	ND	2100	110	57 - 148
Chloroform	1,978	ND	2100	110	78 - 130
Chloromethane	1,978	ND	1800	91	56 - 147
Dibromochloromethane	1,978	ND	1800	91	62 - 131
Dibromomethane	1,978	ND	2000	100	75 - 122
Dichlorodifluoromethane	1,978	ND	1900	96	59 - 131
Ethyl Ether	1,978	ND	2000	100	65 - 138
Ethylbenzene	1,978	ND	2100	110	82 - 122
Hexachlorobutadiene	1,978	ND	1900	96	70 - 130
Isopropylbenzene	1,978	ND	1900	96	82 - 125

M/P Xylene	3,956	ND	4200	110	85 - 120
Methyl-t-Butyl Ether	1,978	ND	2000	100	74 - 125
Methylene Chloride	1,978	ND	2000	100	67 - 139
N-Butylbenzene	1,978	ND	2100	110	80 - 129
N-Propylbenzene	1,978	ND	2000	100	81 - 122
Naphthalene	1,978	ND	1900	96	59 - 129
Ortho Xylene	1,978	ND	1900	96	84 - 122
Para-Isopropyltoluene	1,978	ND	1900	96	79 - 129
Sec-Butylbenzene	1,978	ND	2100	110	81 - 126
Styrene	1,978	ND	1900	96	82 - 125
Tert-Butylbenzene	1,978	ND	1900	96	81 - 126
Tetrachloroethylene	1,978	ND	2000	100	74 - 133
Tetrahydrofuran	1,978	ND	1900	96	60 - 132
Toluene	1,978	ND	2100	110	82 - 124
Trans-1,2-Dichloroethylene	1,978	ND	1900	96	79 - 127
Trichloroethylene	1,978	ND	1900	96	76 - 124
Trichlorofluoromethane	1,978	ND	2300	120	65 - 144
Vinyl Acetate	1,978	ND	2000	100	14 - 152
Vinyl Chloride	1,978	ND	1900	96	34 - 142
c-1,3-dichloropropene	1,978	ND	1800	91	68 - 133
cis-1,2-Dichloroethylene	1,978	ND	2000	100	79 - 131
t-1,3-Dichloropropene	1,978	ND	1800	91	65 - 126

Comments:

Sample ID: AB34165

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,978	2100	110	0	40
1,1,1-Trichloroethane	1,978	2100	110	10	40
1,1,2,2-Tetrachloroethane	1,978	1700	86	25	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,978	2100	110	10	40
1,1,2-Trichloroethane	1,978	1900	96	14	40
1,1-Dichloroethylene	1,978	1900	96	0	52
1,1-Dichloropropene	1,978	2100	110	10	40
1,1-dichloroethane	1,978	2000	100	0	40
1,2,3-Trichlorobenzene	1,978	1900	96	4	40
1,2,3-Trichloropropane	1,978	1700	86	15	40
1,2,4-Trichlorobenzene	1,978	2000	100	0	40
1,2,4-Trimethylbenzene	1,978	2200	110	0	40
1,2-Dibromo-3-Chloropropane	1,978	1600	81	12	40
1,2-Dibromoethane	1,978	1800	91	9	40
1,2-Dichlorobenzene	1,978	2000	100	0	40
1,2-Dichloroethane	1,978	1900	96	4	40
1,2-Dichloropropane	1,978	2000	100	0	40
1,3,5-Trimethylbenzene	1,978	2100	110	0	40
1,3-Dichlorobenzene	1,978	2000	100	0	40
1,3-Dichloropropane	1,978	1900	96	14	40
1,4-Dichlorobenzene	1,978	1900	96	0	40
2,2-Dichloropropane	1,978	2100	110	10	40
2-Butanone (MEK)	1,978	1600	81	30	40
2-Chlorotoluene	1,978	2100	110	10	40
2-Hexanone	1,978	1700	86	25	40
2-Propanone (acetone)	1,978	1300	66	41	40
4-Chlorotoluene	1,978	2100	110	10	40
4-Methyl-2-Pentanone(MIBK)	1,978	1600	81	21	40
Acrylonitrile	1,978	1600	81	21	40
Benzene	1,978	2000	100	0	24
Bromobenzene	1,978	2000	100	4	40
Bromochloromethane	1,978	2000	100	0	40
Bromodichloromethane	1,978	2000	100	0	40
Bromoform	1,978	1500	76	12	40
Bromomethane	1,978	1700	86	6	40
Carbon Disulfide	1,978	2000	100	4	40
Carbon tetrachloride	1,978	2100	110	10	40
Chlorobenzene	1,978	2000	100	0	34
Chloroethane	1,978	2100	110	0	40
Chloroform	1,978	2000	100	10	40
Chloromethane	1,978	1900	96	5	40
Dibromochloromethane	1,978	1700	86	6	40
Dibromomethane	1,978	1800	91	9	40
Dichlorodifluoromethane	1,978	2000	100	4	40
Ethyl Ether	1,978	1800	91	9	40
Ethylbenzene	1,978	2100	110	0	40
Hexachlorobutadiene	1,978	1900	96	0	40
Isopropylbenzene	1,978	2000	100	4	40
M/P Xylene	3,956	4300	110	0	40
Methyl-t-Butyl Ether	1,978	1800	91	9	40
Methylene Chloride	1,978	2000	100	0	40
N-Butylbenzene	1,978	2100	110	0	40
N-Propylbenzene	1,978	2100	110	10	40

Naphthalene	1,978	1600	81	17	40
Ortho Xylene	1,978	2000	100	4	40
Para-Isopropyltoluene	1,978	1900	96	0	40
Sec-Butylbenzene	1,978	2200	110	0	40
Styrene	1,978	1900	96	0	40
Tert-Butylbenzene	1,978	2000	100	4	40
Tetrachloroethylene	1,978	2100	110	10	40
Tetrahydrofuran	1,978	1500	76	23	40
Toluene	1,978	2100	110	0	33
Trans-1,2-Dichloroethylene	1,978	2000	100	4	40
Trichloroethylene	1,978	2000	100	4	27
Trichlorofluoromethane	1,978	1600	81	39	40
Vinyl Acetate	1,978	1700	86	15	40
Vinyl Chloride	1,978	2000	100	4	40
c-1,3-dichloropropene	1,978	1800	91	0	40
cis-1,2-Dichloroethylene	1,978	2100	110	10	40
t-1,3-Dichloropropene	1,978	1700	86	6	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34165

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	ND	40
1,1,2,2-Tetrachloroethane	ND	ND	ND	40
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	40
1,1,2-Trichloroethane	ND	ND	ND	40
1,1-Dichloroethylene	ND	ND	ND	40
1,1-Dichloropropene	ND	ND	ND	40
1,1-dichloroethane	ND	ND	ND	40
1,2,3-Trichlorobenzene	ND	ND	ND	40
1,2,3-Trichloropropane	ND	ND	ND	40
1,2,4-Trichlorobenzene	ND	ND	ND	40
1,2,4-Trimethylbenzene	ND	ND	ND	40
1,2-Dibromo-3-Chloropropane	ND	ND	ND	40
1,2-Dibromoethane	ND	ND	ND	40
1,2-Dichlorobenzene	ND	ND	ND	40
1,2-Dichloroethane	ND	ND	ND	40
1,2-Dichloropropane	ND	ND	ND	40
1,3,5-Trimethylbenzene	ND	ND	ND	40
1,3-Dichlorobenzene	ND	ND	ND	40
1,3-Dichloropropane	ND	ND	ND	40
1,4-Dichlorobenzene	ND	ND	ND	40
2,2-Dichloropropane	ND	ND	ND	40
2-Butanone (MEK)	ND	ND	ND	40
2-Chlorotoluene	ND	ND	ND	40
2-Hexanone	ND	ND	ND	40
2-Propanone (acetone)	ND	ND	ND	40
4-Chlorotoluene	ND	ND	ND	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	40
Acrylonitrile	ND	ND	ND	40
Benzene	ND	ND	ND	40
Bromobenzene	ND	ND	ND	40
Bromochloromethane	ND	ND	ND	40
Bromodichloromethane	ND	ND	ND	40
Bromoform	ND	ND	ND	40
Bromomethane	ND	ND	ND	40
Carbon Disulfide	ND	ND	ND	40
Carbon tetrachloride	ND	ND	ND	40
Chlorobenzene	ND	ND	ND	40
Chloroethane	ND	ND	ND	40
Chloroform	ND	ND	ND	40
Chloromethane	ND	ND	ND	40
Dibromochloromethane	ND	ND	ND	40
Dibromomethane	ND	ND	ND	40
Dichlorodifluoromethane	ND	ND	ND	40
Ethyl Ether	ND	ND	ND	40
Ethylbenzene	ND	ND	ND	40
Hexachlorobutadiene	ND	ND	ND	40
Isopropylbenzene	ND	ND	ND	40
M/P Xylene	ND	ND	ND	40

Methyl-t-Butyl Ether	ND	ND	ND	40
Methylene Chloride	ND	ND	ND	40
N-Butylbenzene	ND	ND	ND	40
N-Propylbenzene	ND	ND	ND	40
Naphthalene	ND	ND	ND	40
Ortho Xylene	ND	ND	ND	40
Para-Isopropyltoluene	ND	ND	ND	40
Sec-Butylbenzene	ND	ND	ND	40
Styrene	ND	ND	ND	40
Tert-Butylbenzene	ND	ND	ND	40
Tetrachloroethylene	ND	ND	ND	40
Tetrahydrofuran	ND	ND	ND	40
Toluene	ND	ND	ND	40
Trans-1,2-Dichloroethylene	ND	ND	ND	40
Trichloroethylene	ND	ND	ND	40
Trichlorofluoromethane	ND	ND	ND	40
Vinyl Acetate	ND	ND	ND	40
Vinyl Chloride	ND	ND	ND	40
c-1,3-dichloropropene	ND	ND	ND	40
cis-1,2-Dichloroethylene	ND	ND	ND	40
t-1,3-Dichloropropene	ND	ND	ND	40

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	20.8	104	77 - 122
1,1,1-Trichloroethane	20	20.6	103	80 - 128
1,1,2,2-Tetrachloroethane	20	21.0	105	73 - 118
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21.3	107	59 - 146
1,1,2-Trichloroethane	20	20.9	105	79 - 117
1,1-Dichloroethylene	20	19.4	97	70 - 130
1,1-Dichloropropene	20	20.3	102	79 - 123
1,1-dichloroethane	20	20.0	100	81 - 122
1,2,3-Trichlorobenzene	20	20.1	101	70 - 119
1,2,3-Trichloropropane	20	19.9	100	73 - 114
1,2,4-Trichlorobenzene	20	20.0	100	74 - 120
1,2,4-Trimethylbenzene	20	21.1	106	79 - 123
1,2-Dibromo-3-Chloropropane	20	20.2	101	63 - 124
1,2-Dibromoethane	20	20.8	104	79 - 116
1,2-Dichlorobenzene	20	19.9	100	77 - 117
1,2-Dichloroethane	20	20.0	100	75 - 124
1,2-Dichloropropane	20	20.2	101	80 - 117
1,3,5-Trimethylbenzene	20	20.9	105	80 - 122
1,3-Dichlorobenzene	20	19.7	99	78 - 117
1,3-Dichloropropane	20	20.6	103	79 - 116
1,4-Dichlorobenzene	20	19.2	96	77 - 115
2,2-Dichloropropane	20	21.0	105	64 - 152
2-Butanone (MEK)	20	20.9	105	55 - 144
2-Chlorotoluene	20	20.3	102	79 - 119
2-Hexanone	20	22.0	110	58 - 147
2-Propanone (acetone)	20	19.7	99	37 - 168
4-Chlorotoluene	20	20.1	101	78 - 120
4-Methyl-2-Pentanone(MIBK)	20	21.2	106	68 - 125
Acrylonitrile	20	19.8	99	68 - 124
Benzene	20	20.0	100	80 - 120
Bromobenzene	20	19.7	99	80 - 115
Bromochloromethane	20	20.3	102	81 - 120
Bromodichloromethane	20	20.7	104	77 - 125
Bromoform	20	18.2	91	62 - 127
Bromomethane	20	17.5	88	60 - 139
Carbon Disulfide	20	19.7	99	73 - 129
Carbon tetrachloride	20	20.8	104	73 - 136
Chlorobenzene	20	19.9	100	82 - 119
Chloroethane	20	20.0	100	69 - 130
Chloroform	20	20.5	103	80 - 122
Chloromethane	20	18.5	93	65 - 129
Dibromochloromethane	20	18.9	95	71 - 129
Dibromomethane	20	20.2	101	79 - 115
Dichlorodifluoromethane	20	19.9	100	69 - 126
Ethyl Ether	20	19.9	100	69 - 127
Ethylbenzene	20	20.6	103	80 - 121
Hexachlorobutadiene	20	18.4	92	72 - 124
Isopropylbenzene	20	19.1	96	79 - 124
M/P Xylene	40	41.5	104	81 - 120
Methyl-t-Butyl Ether	20	20.7	104	78 - 120
Methylene Chloride	20	19.3	97	73 - 129
N-Butylbenzene	20	21.2	106	78 - 126

N-Propylbenzene	20	20.6	103	78 - 122
Naphthalene	20	19.0	95	66 - 124
Ortho Xylene	20	19.2	96	81 - 121
Para-Isopropyltoluene	20	18.7	94	77 - 127
Sec-Butylbenzene	20	21.1	106	79 - 124
Styrene	20	19.0	95	82 - 122
Tert-Butylbenzene	20	18.9	95	78 - 124
Tetrachloroethylene	20	19.9	100	77 - 118
Tetrahydrofuran	20	19.6	98	67 - 124
Toluene	20	20.2	101	81 - 120
Trans-1,2-Dichloroethylene	20	19.5	98	80 - 121
Trichloroethylene	20	19.6	98	80 - 117
Trichlorofluoromethane	20	23.4	117	68 - 137
Vinyl Acetate	20	21.0	105	25 - 150
Vinyl Chloride	20	19.5	98	67 - 134
c-1,3-dichloropropene	20	18.7	94	73 - 133
cis-1,2-Dichloroethylene	20	20.3	102	82 - 122
t-1,3-Dichloropropene	20	18.8	94	69 - 127

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20.7	104	1	50
1,1,1-Trichloroethane	21.3	107	3	50
1,1,2,2-Tetrachloroethane	21.4	107	2	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	21.4	107	1	50
1,1,2-Trichloroethane	21.8	109	4	50
1,1-Dichloroethylene	19.4	97	0	52
1,1-Dichloropropene	20.8	104	2	50
1,1-dichloroethane	20.8	104	4	50
1,2,3-Trichlorobenzene	20.5	103	2	50
1,2,3-Trichloropropane	19.9	100	0	50
1,2,4-Trichlorobenzene	20.2	101	1	50
1,2,4-Trimethylbenzene	21.8	109	3	50
1,2-Dibromo-3-Chloropropane	20.0	100	1	50
1,2-Dibromoethane	20.6	103	1	50
1,2-Dichlorobenzene	20.1	101	1	50
1,2-Dichloroethane	20.9	105	4	50
1,2-Dichloropropane	20.3	102	1	50
1,3,5-Trimethylbenzene	21.7	109	4	50
1,3-Dichlorobenzene	20.1	101	2	50
1,3-Dichloropropane	20.9	105	1	50
1,4-Dichlorobenzene	19.8	99	3	50
2,2-Dichloropropane	21.0	105	0	50
2-Butanone (MEK)	21.7	109	4	50
2-Chlorotoluene	20.7	104	2	50
2-Hexanone	22.3	112	1	50
2-Propanone (acetone)	21.7	109	10	50
4-Chlorotoluene	20.6	103	3	50
4-Methyl-2-Pentanone(MIBK)	21.1	106	1	50
Acrylonitrile	20.2	101	2	50
Benzene	20.9	105	4	50
Bromobenzene	19.7	99	0	50
Bromochloromethane	20.8	104	2	50
Bromodichloromethane	20.6	103	1	50
Bromoform	17.5	88	4	50
Bromomethane	17.9	90	2	50
Carbon Disulfide	20.1	101	2	50
Carbon tetrachloride	21.4	107	3	50
Chlorobenzene	21.0	105	5	34
Chloroethane	18.6	93	7	50
Chloroform	21.3	107	4	50
Chloromethane	19.7	99	6	50
Dibromochloromethane	18.8	94	1	50
Dibromomethane	20.3	102	1	50
Dichlorodifluoromethane	21.1	106	6	50
Ethyl Ether	20.6	103	4	50
Ethylbenzene	21.3	107	3	50
Hexachlorobutadiene	18.8	94	2	50
Isopropylbenzene	19.3	97	1	50
M/P Xylene	43.4	109	4	50
Methyl-t-Butyl Ether	20.0	100	3	50
Methylene Chloride	20.7	104	7	50
N-Butylbenzene	22.2	111	5	50
N-Propylbenzene	21.2	106	3	50
Naphthalene	19.3	97	2	50
Ortho Xylene	19.5	98	2	50

Para-Isopropyltoluene	19.4	97	4	50
Sec-Butylbenzene	21.9	110	4	50
Styrene	19.7	99	4	50
Tert-Butylbenzene	19.5	98	3	50
Tetrachloroethylene	20.1	101	1	50
Tetrahydrofuran	20.3	102	4	50
Toluene	21.2	106	5	50
Trans-1,2-Dichloroethylene	20.1	101	3	50
Trichloroethylene	19.7	99	1	27
Trichlorofluoromethane	22.2	111	5	50
Vinyl Acetate	20.9	105	1	50
Vinyl Chloride	20.5	103	5	50
c-1,3-dichloropropene	18.7	94	0	50
cis-1,2-Dichloroethylene	20.8	104	2	50
t-1,3-Dichloropropene	18.6	93	1	50

Samples in Batch: AB34165, AB34166, AB34167, AB34168, AB34169, AB34170, AB34171, AB34172, AB34173, AB34174, AB34175, AB34176, AB34177, AB34178, AB34179, AB34180, AB34181, AB34184

PN: 12100010

①

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature]	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-01_0-.3	10/08/12	10:44	SE	X	X				2		
	MHK_SED-02_0-.3	10/08/12	10:59	SE	X	X				2		
	MHK_SED-03_0-.3	10/08/12	11:14	SE	X	X				2		
	MHK_SED-04_0-.3	10/08/12	11:29	SE	X	X				2		
	MHK_SED-05_0-.3	10/08/12	11:44	SE	X	X				2		
	MHK_SED-06_0-.3	10/09/12	11:10	SE	X	X				2		
	MHK_SED-07_0-.3	10/08/12	12:07	SE	X	X				2		
	MHK_SED-08_0-.3	10/08/12	12:24	SE	X	X				2		
	MHK_SED-09_0-.3	10/08/12	14:44	SE	X	X				2		
	MHK_SED-10_0-.3	10/08/12	14:30	SE	X	X				2		

PN: 12100010

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature] ESAT	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-11_0-.3	10/08/12	15:14	SE	X	X				2		
	MHK_SED-12_0-.3	10/08/12	15:00	SE	X	X				2		
	MHK_SED-13_0-.3	10/09/12	10:39	SE	X	X				2		
	MHK_SED-14_0-.3	10/08/12	14:10	SE	X	X				2		
	MHK_SED-15_0-.3	10/08/12	13:54	SE	X	X				2		
	MHK_SED-16_0-.3	10/09/12	9:23	SE	X	X				2		
	OW-211	10/09/12	10:39	SE	X	X				2		
	EQUIP BLANK	10/09/12	11:50	AQ	X	X				6	–	
	TRIP BLANK	10/04/12	9:00	AQ	X					4	–	
	VS0656	10/09/12	12:20	SE	X					1	–	
	SS2131	10/09/12	12:20	SE		X				1	–	

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 17, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100010
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Water
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, method 5030B, rev 2.0 SW-846, Rev 2.0,1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Date Samples Received by the Laboratory: 10/09/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34182
Date of Collection:	10/9/2012	Matrix	Aqueous
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34182
Date of Collection:	10/9/2012	Matrix	Aqueous
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34183
Date of Collection:	10/4/2012	Matrix	Methanol
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	ND	50	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	ND	50	
87-61-6	1,2,3-Trichlorobenzene	ND	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	50	
106-93-4	1,2-Dibromoethane	ND	50	
95-50-1	1,2-Dichlorobenzene	ND	50	
107-06-2	1,2-Dichloroethane	ND	50	
78-87-5	1,2-Dichloropropane	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	ND	50	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	ND	50	
67-64-1	2-Propanone (acetone)	ND	50	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	50	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	ND	50	
108-86-1	Bromobenzene	ND	50	
74-97-5	Bromochloromethane	ND	50	
75-27-4	Bromodichloromethane	ND	50	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	ND	50	
108-90-7	Chlorobenzene	ND	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	ND	50	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34183
Date of Collection:	10/4/2012	Matrix	Methanol
Date of Extraction:	10/10/12	Amount Prepared	5 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	ND	50	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	ND	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	ND	50	
108-38-3/106-42-	M/P Xylene	ND	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	ND	50	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	ND	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	ND	50	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	ND	50	
156-60-5	Trans-1,2-Dichloroethylene	ND	50	
79-01-6	Trichloroethylene	ND	50	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	ND	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Methanol
Date of Extraction:	10/10/12	Amount Prepared	5.0 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Methanol
Date of Extraction:	10/10/12	Amount Prepared	5.0 mL
Date of Analysis:	10/10/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments: Laboratory blank is associated with all samples in this project.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB34183

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,000	ND	1000	100	67 - 129
1,1,1-Trichloroethane	1,000	ND	1000	100	75 - 139
1,1,2,2-Tetrachloroethane	1,000	ND	1000	100	50 - 142
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,000	ND	1100	110	55 - 135
1,1,2-Trichloroethane	1,000	ND	1000	100	62 - 142
1,1-Dichloroethylene	1,000	ND	1000	100	80 - 138
1,1-Dichloropropene	1,000	ND	1000	100	73 - 131
1,1-dichloroethane	1,000	ND	1000	100	61 - 152
1,2,3-Trichlorobenzene	1,000	ND	990	99	49 - 143
1,2,3-Trichloropropane	1,000	ND	970	97	53 - 135
1,2,4-Trichlorobenzene	1,000	ND	980	98	63 - 131
1,2,4-Trimethylbenzene	1,000	ND	1000	100	79 - 142
1,2-Dibromo-3-Chloropropane	1,000	ND	1000	100	28 - 122
1,2-Dibromoethane	1,000	ND	1000	100	53 - 139
1,2-Dichlorobenzene	1,000	ND	1000	100	74 - 129
1,2-Dichloroethane	1,000	ND	1000	100	61 - 142
1,2-Dichloropropane	1,000	ND	1000	100	71 - 126
1,3,5-Trimethylbenzene	1,000	ND	1000	100	77 - 140
1,3-Dichlorobenzene	1,000	ND	1000	100	78 - 127
1,3-Dichloropropane	1,000	ND	1000	100	63 - 130
1,4-Dichlorobenzene	1,000	ND	990	99	72 - 131
2,2-Dichloropropane	1,000	ND	1000	100	50 - 139
2-Butanone (MEK)	1,000	ND	1100	110	29 - 163
2-Chlorotoluene	1,000	ND	1000	100	74 - 134
2-Hexanone	1,000	ND	1100	110	36 - 141
2-Propanone (acetone)	1,000	ND	1000	100	29 - 164
4-Chlorotoluene	1,000	ND	1000	100	68 - 141
4-Methyl-2-Pentanone(MIBK)	1,000	ND	1000	100	35 - 139
Acrylonitrile	1,000	ND	1100	110	42 - 150
Benzene	1,000	ND	1000	100	78 - 134
Bromobenzene	1,000	ND	990	99	76 - 126
Bromochloromethane	1,000	ND	1000	100	62 - 140
Bromodichloromethane	1,000	ND	1000	100	62 - 133
Bromoform	1,000	ND	1000	100	31 - 133
Bromomethane	1,000	ND	1100	110	58 - 148
Carbon Disulfide	1,000	ND	1000	100	66 - 135
Carbon tetrachloride	1,000	ND	1000	100	62 - 146
Chlorobenzene	1,000	ND	1000	100	74 - 139
Chloroethane	1,000	ND	1100	110	65 - 145
Chloroform	1,000	ND	1000	100	60 - 144
Chloromethane	1,000	ND	980	98	58 - 134
Dibromochloromethane	1,000	ND	1000	100	34 - 140
Dibromomethane	1,000	ND	1000	100	67 - 125
Dichlorodifluoromethane	1,000	ND	1100	110	30 - 132
Ethyl Ether	1,000	ND	1100	110	58 - 145
Ethylbenzene	1,000	ND	1000	100	73 - 143
Hexachlorobutadiene	1,000	ND	990	99	56 - 144
Isopropylbenzene	1,000	ND	1000	100	73 - 139

M/P Xylene	2,000	ND	2000	100	79 - 136
Methyl-t-Butyl Ether	1,000	ND	1000	100	50 - 144
Methylene Chloride	1,000	ND	1000	100	70 - 144
N-Butylbenzene	1,000	ND	1100	110	68 - 143
N-Propylbenzene	1,000	ND	1000	100	72 - 149
Naphthalene	1,000	ND	950	95	33 - 154
Ortho Xylene	1,000	ND	1000	100	80 - 129
Para-Isopropyltoluene	1,000	ND	1100	110	71 - 140
Sec-Butylbenzene	1,000	ND	1000	100	75 - 148
Styrene	1,000	ND	1100	110	61 - 148
Tert-Butylbenzene	1,000	ND	1100	110	71 - 139
Tetrachloroethylene	1,000	ND	1100	110	45 - 145
Tetrahydrofuran	1,000	ND	1100	110	37 - 143
Toluene	1,000	ND	990	99	77 - 142
Trans-1,2-Dichloroethylene	1,000	ND	1000	100	79 - 139
Trichloroethylene	1,000	ND	1000	100	65 - 143
Trichlorofluoromethane	1,000	ND	1100	110	58 - 161
Vinyl Acetate	1,000	ND	1100	110	22 - 173
Vinyl Chloride	1,000	ND	1000	100	68 - 139
c-1,3-dichloropropene	1,000	ND	1000	100	51 - 144
cis-1,2-Dichloroethylene	1,000	ND	1100	110	59 - 154
t-1,3-Dichloropropene	1,000	ND	1000	100	47 - 145

Comments:

Sample ID: AB34183

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,000	1000	100	0	40
1,1,1-Trichloroethane	1,000	1000	100	0	16
1,1,2,2-Tetrachloroethane	1,000	1000	100	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,000	1100	110	0	40
1,1,2-Trichloroethane	1,000	1000	100	0	40
1,1-Dichloroethylene	1,000	1000	100	0	35
1,1-Dichloropropene	1,000	1100	110	10	40
1,1-dichloroethane	1,000	1000	100	0	40
1,2,3-Trichlorobenzene	1,000	1100	110	11	40
1,2,3-Trichloropropane	1,000	1000	100	3	40
1,2,4-Trichlorobenzene	1,000	1000	100	2	40
1,2,4-Trimethylbenzene	1,000	1000	100	0	40
1,2-Dibromo-3-Chloropropane	1,000	1000	100	0	40
1,2-Dibromoethane	1,000	1000	100	0	40
1,2-Dichlorobenzene	1,000	1000	100	0	40
1,2-Dichloroethane	1,000	1000	100	0	23
1,2-Dichloropropane	1,000	1000	100	0	40
1,3,5-Trimethylbenzene	1,000	1100	110	10	40
1,3-Dichlorobenzene	1,000	1000	100	0	40
1,3-Dichloropropane	1,000	1000	100	0	40
1,4-Dichlorobenzene	1,000	1000	100	1	21
2,2-Dichloropropane	1,000	1000	100	0	40
2-Butanone (MEK)	1,000	1000	100	10	40
2-Chlorotoluene	1,000	1000	100	0	40
2-Hexanone	1,000	1100	110	0	40
2-Propanone (acetone)	1,000	1000	100	0	40
4-Chlorotoluene	1,000	1000	100	0	40
4-Methyl-2-Pentanone(MIBK)	1,000	1100	110	10	40
Acrylonitrile	1,000	1100	110	0	40
Benzene	1,000	1000	100	0	14
Bromobenzene	1,000	1000	100	1	40
Bromochloromethane	1,000	1000	100	0	40
Bromodichloromethane	1,000	1000	100	0	21
Bromoform	1,000	1100	110	10	40
Bromomethane	1,000	1100	110	0	40
Carbon Disulfide	1,000	1000	100	0	40
Carbon tetrachloride	1,000	1000	100	0	19
Chlorobenzene	1,000	990	99	1	40
Chloroethane	1,000	1100	110	0	40
Chloroform	1,000	1000	100	0	16
Chloromethane	1,000	980	98	0	40
Dibromochloromethane	1,000	1000	100	0	36
Dibromomethane	1,000	1000	100	0	40
Dichlorodifluoromethane	1,000	1100	110	0	40
Ethyl Ether	1,000	1100	110	0	40
Ethylbenzene	1,000	1000	100	0	40
Hexachlorobutadiene	1,000	990	99	0	40
Isopropylbenzene	1,000	1100	110	10	40
M/P Xylene	2,000	2100	105	5	40
Methyl-t-Butyl Ether	1,000	1000	100	0	40
Methylene Chloride	1,000	1000	100	0	40
N-Butylbenzene	1,000	1100	110	0	40
N-Propylbenzene	1,000	1000	100	0	40

Naphthalene	1,000	980	98	3	40
Ortho Xylene	1,000	1100	110	10	40
Para-Isopropyltoluene	1,000	1100	110	0	40
Sec-Butylbenzene	1,000	1100	110	10	40
Styrene	1,000	1100	110	0	40
Tert-Butylbenzene	1,000	1100	110	0	40
Tetrachloroethylene	1,000	1100	110	0	40
Tetrahydrofuran	1,000	1100	110	0	40
Toluene	1,000	1000	100	1	40
Trans-1,2-Dichloroethylene	1,000	1000	100	0	40
Trichloroethylene	1,000	1100	110	10	22
Trichlorofluoromethane	1,000	1100	110	0	40
Vinyl Acetate	1,000	1000	100	10	40
Vinyl Chloride	1,000	990	99	1	19
c-1,3-dichloropropene	1,000	1000	100	0	40
cis-1,2-Dichloroethylene	1,000	1000	100	10	40
t-1,3-Dichloropropene	1,000	1100	110	10	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34183

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	30
1,1,1-Trichloroethane	ND	ND	ND	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	30
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	30
1,1,2-Trichloroethane	ND	ND	ND	30
1,1-Dichloroethylene	ND	ND	ND	30
1,1-Dichloropropene	ND	ND	ND	30
1,1-dichloroethane	ND	ND	ND	30
1,2,3-Trichlorobenzene	ND	ND	ND	30
1,2,3-Trichloropropane	ND	ND	ND	30
1,2,4-Trichlorobenzene	ND	ND	ND	30
1,2,4-Trimethylbenzene	ND	ND	ND	30
1,2-Dibromo-3-Chloropropane	ND	ND	ND	30
1,2-Dibromoethane	ND	ND	ND	30
1,2-Dichlorobenzene	ND	ND	ND	30
1,2-Dichloroethane	ND	ND	ND	30
1,2-Dichloropropane	ND	ND	ND	30
1,3,5-Trimethylbenzene	ND	ND	ND	30
1,3-Dichlorobenzene	ND	ND	ND	30
1,3-Dichloropropane	ND	ND	ND	30
1,4-Dichlorobenzene	ND	ND	ND	30
2,2-Dichloropropane	ND	ND	ND	30
2-Butanone (MEK)	ND	ND	ND	30
2-Chlorotoluene	ND	ND	ND	30
2-Hexanone	ND	ND	ND	30
2-Propanone (acetone)	ND	ND	ND	30
4-Chlorotoluene	ND	ND	ND	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	30
Acrylonitrile	ND	ND	ND	30
Benzene	ND	ND	ND	30
Bromobenzene	ND	ND	ND	30
Bromochloromethane	ND	ND	ND	30
Bromodichloromethane	ND	ND	ND	30
Bromoform	ND	ND	ND	30
Bromomethane	ND	ND	ND	30
Carbon Disulfide	ND	ND	ND	30
Carbon tetrachloride	ND	ND	ND	30
Chlorobenzene	ND	ND	ND	30
Chloroethane	ND	ND	ND	30
Chloroform	ND	ND	ND	30
Chloromethane	ND	ND	ND	30
Dibromochloromethane	ND	ND	ND	30
Dibromomethane	ND	ND	ND	30
Dichlorodifluoromethane	ND	ND	ND	30
Ethyl Ether	ND	ND	ND	30
Ethylbenzene	ND	ND	ND	30
Hexachlorobutadiene	ND	ND	ND	30
Isopropylbenzene	ND	ND	ND	30
M/P Xylene	ND	ND	ND	30

Methyl-t-Butyl Ether	ND	ND	ND	30
Methylene Chloride	ND	ND	ND	30
N-Butylbenzene	ND	ND	ND	30
N-Propylbenzene	ND	ND	ND	30
Naphthalene	ND	ND	ND	30
Ortho Xylene	ND	ND	ND	30
Para-Isopropyltoluene	ND	ND	ND	30
Sec-Butylbenzene	ND	ND	ND	30
Styrene	ND	ND	ND	30
Tert-Butylbenzene	ND	ND	ND	30
Tetrachloroethylene	ND	ND	ND	30
Tetrahydrofuran	ND	ND	ND	30
Toluene	ND	ND	ND	30
Trans-1,2-Dichloroethylene	ND	ND	ND	30
Trichloroethylene	ND	ND	ND	30
Trichlorofluoromethane	ND	ND	ND	30
Vinyl Acetate	ND	ND	ND	30
Vinyl Chloride	ND	ND	ND	30
c-1,3-dichloropropene	ND	ND	ND	30
cis-1,2-Dichloroethylene	ND	ND	ND	30
t-1,3-Dichloropropene	ND	ND	ND	30

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	20	100	79 - 136
1,1,1-Trichloroethane	20	20	100	75 - 146
1,1,2,2-Tetrachloroethane	20	20	100	62 - 141
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21	105	56 - 130
1,1,2-Trichloroethane	20	20	100	75 - 138
1,1-Dichloroethylene	20	20	100	75 - 136
1,1-Dichloropropene	20	21	105	77 - 137
1,1-dichloroethane	20	20	100	76 - 142
1,2,3-Trichlorobenzene	20	20	100	64 - 143
1,2,3-Trichloropropane	20	20	100	66 - 133
1,2,4-Trichlorobenzene	20	20	100	80 - 131
1,2,4-Trimethylbenzene	20	20	100	74 - 155
1,2-Dibromo-3-Chloropropane	20	21	105	37 - 139
1,2-Dibromoethane	20	21	105	72 - 135
1,2-Dichlorobenzene	20	20	100	85 - 128
1,2-Dichloroethane	20	20	100	74 - 138
1,2-Dichloropropane	20	20	100	83 - 124
1,3,5-Trimethylbenzene	20	21	105	80 - 145
1,3-Dichlorobenzene	20	20	100	84 - 130
1,3-Dichloropropane	20	20	100	77 - 129
1,4-Dichlorobenzene	20	20	100	82 - 128
2,2-Dichloropropane	20	21	105	32 - 171
2-Butanone (MEK)	20	21	105	38 - 179
2-Chlorotoluene	20	20	100	78 - 134
2-Hexanone	20	22	110	45 - 158
2-Propanone (acetone)	20	21	105	14 - 209
4-Chlorotoluene	20	20	100	75 - 144
4-Methyl-2-Pentanone(MIBK)	20	21	105	40 - 144
Acrylonitrile	20	21	105	52 - 154
Benzene	20	20	100	83 - 130
Bromobenzene	20	21	105	85 - 126
Bromochloromethane	20	21	105	69 - 137
Bromodichloromethane	20	20	100	70 - 143
Bromoform	20	20	100	51 - 136
Bromomethane	20	19	95	65 - 140
Carbon Disulfide	20	21	105	68 - 140
Carbon tetrachloride	20	21	105	70 - 144
Chlorobenzene	20	20	100	84 - 131
Chloroethane	20	19	95	70 - 134
Chloroform	20	20	100	76 - 141
Chloromethane	20	19	95	63 - 123
Dibromochloromethane	20	21	105	39 - 154
Dibromomethane	20	20	100	79 - 124
Dichlorodifluoromethane	20	21	105	37 - 117
Ethyl Ether	20	19	95	67 - 140
Ethylbenzene	20	21	105	81 - 133
Hexachlorobutadiene	20	21	105	68 - 146
Isopropylbenzene	20	20	100	78 - 137
M/P Xylene	40	41	103	68 - 155
Methyl-t-Butyl Ether	20	20	100	63 - 144
Methylene Chloride	20	19	95	75 - 140
N-Butylbenzene	20	21	105	69 - 147

N-Propylbenzene	20	20	100	76 - 138
Naphthalene	20	19	95	53 - 155
Ortho Xylene	20	21	105	85 - 135
Para-Isopropyltoluene	20	21	105	77 - 141
Sec-Butylbenzene	20	21	105	80 - 141
Styrene	20	21	105	82 - 139
Tert-Butylbenzene	20	21	105	75 - 144
Tetrachloroethylene	20	20	100	32 - 173
Tetrahydrofuran	20	20	100	47 - 149
Toluene	20	20	100	85 - 134
Trans-1,2-Dichloroethylene	20	20	100	80 - 138
Trichloroethylene	20	20	100	76 - 135
Trichlorofluoromethane	20	21	105	60 - 149
Vinyl Acetate	20	20	100	38 - 187
Vinyl Chloride	20	21	105	66 - 133
c-1,3-dichloropropene	20	21	105	68 - 149
cis-1,2-Dichloroethylene	20	21	105	76 - 143
t-1,3-Dichloropropene	20	21	105	62 - 160

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	100	0	50
1,1,1-Trichloroethane	20	100	0	50
1,1,2,2-Tetrachloroethane	20	100	0	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	21	105	0	50
1,1,2-Trichloroethane	20	100	0	50
1,1-Dichloroethylene	20	100	0	52
1,1-Dichloropropene	20	100	5	50
1,1-dichloroethane	20	100	0	50
1,2,3-Trichlorobenzene	20	100	0	50
1,2,3-Trichloropropane	19	95	5	50
1,2,4-Trichlorobenzene	20	100	0	50
1,2,4-Trimethylbenzene	20	100	0	50
1,2-Dibromo-3-Chloropropane	21	105	0	50
1,2-Dibromoethane	21	105	0	50
1,2-Dichlorobenzene	20	100	0	50
1,2-Dichloroethane	20	100	0	50
1,2-Dichloropropane	20	100	0	50
1,3,5-Trimethylbenzene	20	100	5	50
1,3-Dichlorobenzene	20	100	0	50
1,3-Dichloropropane	20	100	0	50
1,4-Dichlorobenzene	19	95	5	50
2,2-Dichloropropane	20	100	5	50
2-Butanone (MEK)	21	105	0	50
2-Chlorotoluene	20	100	0	50
2-Hexanone	21	105	5	50
2-Propanone (acetone)	20	100	5	50
4-Chlorotoluene	20	100	0	50
4-Methyl-2-Pentanone(MIBK)	21	105	0	50
Acrylonitrile	21	105	0	50
Benzene	20	100	0	50
Bromobenzene	20	100	5	50
Bromochloromethane	20	100	5	50
Bromodichloromethane	20	100	0	50
Bromoform	21	105	5	50
Bromomethane	19	95	0	50
Carbon Disulfide	20	100	5	50
Carbon tetrachloride	20	100	5	50
Chlorobenzene	20	100	0	34
Chloroethane	19	95	0	50
Chloroform	19	95	5	50
Chloromethane	18	90	5	50
Dibromochloromethane	21	105	0	50
Dibromomethane	20	100	0	50
Dichlorodifluoromethane	20	100	5	50
Ethyl Ether	20	100	5	50
Ethylbenzene	20	100	5	50
Hexachlorobutadiene	19	95	10	50
Isopropylbenzene	20	100	0	50
M/P Xylene	39	98	5	50
Methyl-t-Butyl Ether	20	100	0	50
Methylene Chloride	19	95	0	50
N-Butylbenzene	20	100	5	50
N-Propylbenzene	20	100	0	50
Naphthalene	19	95	0	50
Ortho Xylene	20	100	5	50

Para-Isopropyltoluene	21	105	0	50
Sec-Butylbenzene	20	100	5	50
Styrene	21	105	0	50
Tert-Butylbenzene	21	105	0	50
Tetrachloroethylene	20	100	0	50
Tetrahydrofuran	20	100	0	50
Toluene	20	100	0	50
Trans-1,2-Dichloroethylene	20	100	0	50
Trichloroethylene	20	100	0	27
Trichlorofluoromethane	20	100	5	50
Vinyl Acetate	20	100	0	50
Vinyl Chloride	20	100	5	50
c-1,3-dichloropropene	21	105	0	50
cis-1,2-Dichloroethylene	20	100	5	50
t-1,3-Dichloropropene	21	105	0	50

Samples in Batch: AB34182, AB34183

PN: 12100010

①

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature]	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-01_0-.3	10/08/12	10:44	SE	X	X				2		
	MHK_SED-02_0-.3	10/08/12	10:59	SE	X	X				2		
	MHK_SED-03_0-.3	10/08/12	11:14	SE	X	X				2		
	MHK_SED-04_0-.3	10/08/12	11:29	SE	X	X				2		
	MHK_SED-05_0-.3	10/08/12	11:44	SE	X	X				2		
	MHK_SED-06_0-.3	10/09/12	11:10	SE	X	X				2		
	MHK_SED-07_0-.3	10/08/12	12:07	SE	X	X				2		
	MHK_SED-08_0-.3	10/08/12	12:24	SE	X	X				2		
	MHK_SED-09_0-.3	10/08/12	14:44	SE	X	X				2		
	MHK_SED-10_0-.3	10/08/12	14:30	SE	X	X				2		

PN: 12100010

(2)

Shipping Group: 1

Chain-of-Custody

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Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/9/12 12:33	[signature]	10-9-12 12:33
[signature]	10-9-12 1:55	[signature] ESAT	10-9-12 13:55

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-211
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS				# of Containers	MeOH Vial #	Remarks:
	MHK_SED-11_0-.3	10/08/12	15:14	SE	X	X				2		
	MHK_SED-12_0-.3	10/08/12	15:00	SE	X	X				2		
	MHK_SED-13_0-.3	10/09/12	10:39	SE	X	X				2		
	MHK_SED-14_0-.3	10/08/12	14:10	SE	X	X				2		
	MHK_SED-15_0-.3	10/08/12	13:54	SE	X	X				2		
	MHK_SED-16_0-.3	10/09/12	9:23	SE	X	X				2		
	OW-211	10/09/12	10:39	SE	X	X				2		
	EQUIP BLANK	10/09/12	11:50	AQ	X	X				6	–	
	TRIP BLANK	10/04/12	9:00	AQ	X					4	–	
	VS0656	10/09/12	12:20	SE	X					1	–	
	SS2131	10/09/12	12:20	SE		X				1	–	

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 23, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100027
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in Water
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAW2.

Samples were prepared using separatory funnel liquid-liquid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this method is based on the US EPA SW-846 Methods 3510C, 8270C, Method 625, and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/17/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

12100027$BNAW

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-10	Lab Sample ID:	AB34801
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-10	Lab Sample ID:	AB34801
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-10	Lab Sample ID:	AB34801
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	52	12 - 74
Phenol-d6 (SS2)	32	6 - 52
Nitrobenzene-d5 (SS3)	66	32 - 114
2-Fluorobiphenyl (SS4)	83	33 - 119
2,4,6-Tribromophenol (SS5)	78	30 - 144
p-Terphenyl-d14 (SS6)	91	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-13	Lab Sample ID:	AB34802
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-13	Lab Sample ID:	AB34802
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-13	Lab Sample ID:	AB34802
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	52	12 - 74
Phenol-d6 (SS2)	32	6 - 52
Nitrobenzene-d5 (SS3)	65	32 - 114
2-Fluorobiphenyl (SS4)	79	33 - 119
2,4,6-Tribromophenol (SS5)	76	30 - 144
p-Terphenyl-d14 (SS6)	87	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-14	Lab Sample ID:	AB34803
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-14	Lab Sample ID:	AB34803
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-14	Lab Sample ID:	AB34803
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	53	12 - 74
Phenol-d6 (SS2)	33	6 - 52
Nitrobenzene-d5 (SS3)	68	32 - 114
2-Fluorobiphenyl (SS4)	88	33 - 119
2,4,6-Tribromophenol (SS5)	71	30 - 144
p-Terphenyl-d14 (SS6)	93	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	69	34 - 122
2-Fluorobiphenyl (SS4)	66	46 - 112
2-Fluorophenol (SS1)	51	23 - 74
Nitrobenzene-d5 (SS3)	62	33 - 122
Phenol-d6 (SS2)	32	13 - 53
p-Terphenyl-d14 (SS6)	79	52 - 126

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-19	Lab Sample ID:	AB34804
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-19	Lab Sample ID:	AB34804
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-19	Lab Sample ID:	AB34804
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	59	12 - 74
Phenol-d6 (SS2)	37	6 - 52
Nitrobenzene-d5 (SS3)	68	32 - 114
2-Fluorobiphenyl (SS4)	83	33 - 119
2,4,6-Tribromophenol (SS5)	76	30 - 144
p-Terphenyl-d14 (SS6)	91	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-221	Lab Sample ID:	AB34805
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-221	Lab Sample ID:	AB34805
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-221	Lab Sample ID:	AB34805
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	54	12 - 74
Phenol-d6 (SS2)	33	6 - 52
Nitrobenzene-d5 (SS3)	68	32 - 114
2-Fluorobiphenyl (SS4)	82	33 - 119
2,4,6-Tribromophenol (SS5)	81	30 - 144
p-Terphenyl-d14 (SS6)	90	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34806
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34806
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34806
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	46	12 - 74
Phenol-d6 (SS2)	30	6 - 52
Nitrobenzene-d5 (SS3)	63	32 - 114
2-Fluorobiphenyl (SS4)	78	33 - 119
2,4,6-Tribromophenol (SS5)	64	30 - 144
p-Terphenyl-d14 (SS6)	86	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-04	Lab Sample ID:	AB34812
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-04	Lab Sample ID:	AB34812
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-04	Lab Sample ID:	AB34812
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	35	12 - 74
Phenol-d6 (SS2)	22	6 - 52
Nitrobenzene-d5 (SS3)	44	32 - 114
2-Fluorobiphenyl (SS4)	52	33 - 119
2,4,6-Tribromophenol (SS5)	49	30 - 144
p-Terphenyl-d14 (SS6)	63	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-14	Lab Sample ID:	AB34814
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-14	Lab Sample ID:	AB34814
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-14	Lab Sample ID:	AB34814
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	50	12 - 74
Phenol-d6 (SS2)	30	6 - 52
Nitrobenzene-d5 (SS3)	63	32 - 114
2-Fluorobiphenyl (SS4)	74	33 - 119
2,4,6-Tribromophenol (SS5)	75	30 - 144
p-Terphenyl-d14 (SS6)	89	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-231	Lab Sample ID:	AB34815
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-231	Lab Sample ID:	AB34815
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-231	Lab Sample ID:	AB34815
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	52	12 - 74
Phenol-d6 (SS2)	31	6 - 52
Nitrobenzene-d5 (SS3)	65	32 - 114
2-Fluorobiphenyl (SS4)	79	33 - 119
2,4,6-Tribromophenol (SS5)	78	30 - 144
p-Terphenyl-d14 (SS6)	93	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUP BLANK	Lab Sample ID:	AB34816
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUP BLANK	Lab Sample ID:	AB34816
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	EQUP BLANK	Lab Sample ID:	AB34816
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	49	12 - 74
Phenol-d6 (SS2)	33	6 - 52
Nitrobenzene-d5 (SS3)	68	32 - 114
2-Fluorobiphenyl (SS4)	79	33 - 119
2,4,6-Tribromophenol (SS5)	65	30 - 144
p-Terphenyl-d14 (SS6)	89	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SW-01	Lab Sample ID:	AB34817
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	**16**	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SW-01	Lab Sample ID:	AB34817
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	**34**	5.0	
100-51-6	Benzyl alcohol	**160**	13	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	**5.6**	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SW-01	Lab Sample ID:	AB34817
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	**5.3**	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	35	12 - 74
Phenol-d6 (SS2)	24	6 - 52
Nitrobenzene-d5 (SS3)	43	32 - 114
2-Fluorobiphenyl (SS4)	48	33 - 119
2,4,6-Tribromophenol (SS5)	68	30 - 144
p-Terphenyl-d14 (SS6)	61	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Benzyl alcohol is reported from a 5x dilution.

Tentatively Identified non-Tareget Compounds

2-methoxy-3-(2-propenyl)-phenol	22	ppb	J
2,3,4,6-tetrahydroxy-5H-benzocyclohepten-5-one	52	ppb	J
.beta.-sitosterol	41	ppb	J

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SW-02	Lab Sample ID:	AB34818
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SW-02	Lab Sample ID:	AB34818
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	**18**	5.0	
100-51-6	Benzyl alcohol	**9.4**	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SW-02	Lab Sample ID:	AB34818
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	35	12 - 74
Phenol-d6 (SS2)	25	6 - 52
Nitrobenzene-d5 (SS3)	52	32 - 114
2-Fluorobiphenyl (SS4)	54	33 - 119
2,4,6-Tribromophenol (SS5)	63	30 - 144
p-Terphenyl-d14 (SS6)	62	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-241	Lab Sample ID:	AB34819
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-241	Lab Sample ID:	AB34819
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	**18**	5.0	
100-51-6	Benzyl alcohol	**9.9**	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	OW-241	Lab Sample ID:	AB34819
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	39	12 - 74
Phenol-d6 (SS2)	25	6 - 52
Nitrobenzene-d5 (SS3)	56	32 - 114
2-Fluorobiphenyl (SS4)	63	33 - 119
2,4,6-Tribromophenol (SS5)	69	30 - 144
p-Terphenyl-d14 (SS6)	65	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	SV0842	Lab Sample ID:	AB34821
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	**31**	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	**40**	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	**39**	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	**16**	2.5	
51-28-5	2,4-Dinitrophenol	**40**	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	**38**	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	**17**	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	**52**	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	**52**	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	**64**	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	**72**	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	**28**	2.5	
100-01-6	4-Nitroaniline	**66**	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	**33**	2.5	
208-96-8	Acenaphthylene	**21**	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	SV0842	Lab Sample ID:	AB34821
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	**36**	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	**46**	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	**41**	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	**57**	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	**27**	2.5	
85-68-7	Butylbenzylphthalate	**27**	2.5	
86-74-8	Carbazole	**43**	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	**40**	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	**18**	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	**21**	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	**20**	2.5	
86-73-7	Fluorene	**7.3**	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	**41**	2.5	
77-47-4	Hexachlorocyclopentadiene	**24**	2.5	
67-72-1	Hexachloroethane	**27**	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	**17**	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	**40**	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	**53**	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	SV0842	Lab Sample ID:	AB34821
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	**20**	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	**90**	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	**8.8**	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	**49**	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	54	12 - 74
Phenol-d6 (SS2)	36	6 - 52
Nitrobenzene-d5 (SS3)	86	32 - 114
2-Fluorobiphenyl (SS4)	78	33 - 119
2,4,6-Tribromophenol (SS5)	84	30 - 144
p-Terphenyl-d14 (SS6)	91	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	SV0518	Lab Sample ID:	AB34822
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	**27**	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	**38**	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	**40**	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	**16**	2.5	
51-28-5	2,4-Dinitrophenol	**40**	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	**38**	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	**17**	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	**54**	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	**57**	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	**64**	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	**73**	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	**27**	2.5	
100-01-6	4-Nitroaniline	**70**	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	**32**	2.5	
208-96-8	Acenaphthylene	**20**	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	SV0518	Lab Sample ID:	AB34822
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	**36**	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	**46**	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	**41**	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	**58**	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	**27**	2.5	
85-68-7	Butylbenzylphthalate	**27**	2.5	
86-74-8	Carbazole	**45**	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	**41**	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	**18**	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	**22**	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	**21**	2.5	
86-73-7	Fluorene	**7.3**	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	**25**	2.5	
77-47-4	Hexachlorocyclopentadiene	**17**	2.5	
67-72-1	Hexachloroethane	**24**	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	**17**	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	**41**	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	**55**	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	SV0518	Lab Sample ID:	AB34822
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	**19**	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	**92**	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	**9.8**	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	**50**	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	58	12 - 74
Phenol-d6 (SS2)	37	6 - 52
Nitrobenzene-d5 (SS3)	81	32 - 114
2-Fluorobiphenyl (SS4)	81	33 - 119
2,4,6-Tribromophenol (SS5)	88	30 - 144
p-Terphenyl-d14 (SS6)	95	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-19 T	Lab Sample ID:	AB34823
Date of Collection:	10/16/2012	Matrix	WATER
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-19 T	Lab Sample ID:	AB34823
Date of Collection:	10/16/2012	Matrix	WATER
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-19 T	Lab Sample ID:	AB34823
Date of Collection:	10/16/2012	Matrix	WATER
Date of Extraction:	10/18/12	Amount Prepared	1000 mL
Date of Analysis:	10/18/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	28	12 - 74
Phenol-d6 (SS2)	17	6 - 52
Nitrobenzene-d5 (SS3)	39	32 - 114
2-Fluorobiphenyl (SS4)	43	33 - 119
2,4,6-Tribromophenol (SS5)	39	30 - 144
p-Terphenyl-d14 (SS6)	48	40 - 132

Comments: The reporting level for several compounds have been raised to reflect the calibration range of the method.

This is the unfiltered sample.

MATRIX SPIKE (MS)

Mohawk Tannery - Nashua, NH

Sample ID: AB34814

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	40	ND	29.7	74	50 - 104
1,2,4-Trichlorobenzene	40	ND	25.8	65	31 - 106
1,2-Dichlorobenzene	40	ND	24.6	62	26 - 103
1,3-Dichlorobenzene	40	ND	22.4	56	20 - 100
1,3-Dinitrobenzene	40	ND	36.4	91	31 - 152
1,4-Dichlorobenzene	40	ND	23.2	58	21 - 100
1,4-Naphthoquinone	40	ND	30.1	75	52 - 110
1-Methylnaphthalene	40	ND	29.9	75	54 - 110
2,2'-oxybis(1-chloropropane)	40	ND	25.1	63	43 - 124
2,3,4,6-Tetrachlorophenol	40	ND	33.8	85	63 - 127
2,4,5-Trichlorophenol	40	ND	34.2	86	62 - 125
2,4,6-Trichlorophenol	40	ND	34.8	87	67 - 119
2,4-Dichlorophenol	40	ND	32.7	82	64 - 113
2,4-Dinitrophenol	40	ND	27.5	69	28 - 139
2,4-Dinitrotoluene	40	ND	35.8	90	64 - 131
2,4-dimethylphenol	40	ND	25.2	63	21 - 123
2,6-Dichlorophenol	40	ND	32.7	82	63 - 111
2,6-Dinitrotoluene	40	ND	35.6	89	65 - 127
2-Chloronaphthalene	40	ND	33.1	83	50 - 120
2-Chlorophenol	40	ND	31.5	79	57 - 105
2-Methylnaphthalene	40	ND	29.6	74	53 - 107
2-Methylphenol	40	ND	25.3	63	47 - 105
2-Nitroaniline	40	ND	33.9	85	58 - 144
2-Nitrophenol	40	ND	33.8	85	59 - 124
3&4-Methylphenol	80	ND	50.0	63	13 - 144
3,3'-Dichlorobenzidine	40	ND	38.1	95	5.0 - 163
3-Methylcholanthrene	40	ND	39.2	98	23 - 166
3-Nitroaniline	40	ND	33.5	84	45 - 129
4,6-Dinitro-2-methylphenol	40	ND	35.3	88	45 - 128
4-Bromophenyl-phenylether	40	ND	37.1	93	63 - 121
4-Chloro-3-methylphenol	40	ND	32.6	82	65 - 119
4-Chloroaniline	40	ND	20.9	52	7.8 - 122
4-Chlorophenyl-phenylether	40	ND	34.7	87	61 - 116
4-Nitroaniline	40	ND	34.7	87	41 - 139
4-Nitrophenol	40	ND	17.2	43	5.8 - 109
4-nitroquinoline-1-oxide	40	ND	26.1	65	38 - 108
Acenaphthene	40	ND	33.5	84	61 - 113
Acenaphthylene	40	ND	34.1	85	62 - 113
Acetophenone	40	ND	29.3	73	61 - 113
Aniline	40	ND	20.8	52	17 - 109
Anthracene	40	ND	37.0	93	68 - 121
Aramite	40	ND	35.8	90	24 - 158
Azobenzene	40	ND	38.0	95	60 - 123
Benzidine	40	ND	7.7	19	10 - 80
Benzo(a)anthracene	40	ND	39.3	98	69 - 119
Benzo(a)pyrene	40	ND	38.8	97	57 - 132
Benzo(b)fluoranthene	40	ND	40.1	100	55 - 139
Benzo(g,h,i)perylene	40	ND	39.4	99	60 - 130

Benzo(k)fluoranthene	40	ND	41.9	105	62 - 126
Benzoic acid	40	ND	14.1	35	3.7 - 86
Benzyl alcohol	40	ND	25.9	65	23 - 133
Bis(2-Chloroethyl)ether	40	ND	30.6	77	57 - 111
Bis(2-ethylhexyl)phthalate	40	ND	38.8	97	37 - 155
Butylbenzylphthalate	40	ND	40.5	101	64 - 133
Carbazole	40	ND	37.4	94	62 - 128
Chlorobenzilate	40	ND	38.5	96	55 - 146
Chrysene	40	ND	38.9	97	71 - 110
Di-n-butylphthalate	40	ND	39.6	99	68 - 135
Di-n-octyl phthalate	40	ND	39.4	99	35 - 160
Dibenz(a,h)anthracene	40	ND	39.0	98	58 - 137
Dibenzofuran	40	ND	33.8	85	62 - 113
Diethylphthalate	40	ND	36.5	91	56 - 131
Dimethyl phthalate	40	ND	35.4	89	64 - 121
Dinoseb	40	ND	33.5	84	46 - 121
Ethyl methanesulfonate	40	ND	29.3	73	56 - 117
Fluoranthene	40	ND	37.3	93	64 - 128
Fluorene	40	ND	34.8	87	63 - 119
Hexachlorobenzene	40	ND	36.8	92	62 - 118
Hexachlorobutadiene	40	ND	21.3	53	9.5 - 107
Hexachlorocyclopentadiene	40	ND	22.8	57	11 - 117
Hexachloroethane	40	ND	21.7	54	6.9 - 101
Hexachloropropene	40	ND	20.9	52	8.1 - 110
Indeno(1,2,3-cd)pyrene	40	ND	39.6	99	62 - 129
Isodrin	40	ND	34.6	87	63 - 119
Isophorone	40	ND	33.1	83	60 - 130
Isosafrole	40	ND	32.4	81	59 - 112
Kepone	40	ND	ND	ND	8.3 - 117
Methyl methanesulfonate	40	ND	27.8	70	37 - 98
N-Nitrosodiphenylamine	40	ND	37.4	94	58 - 117
N-nitroso-di-n-propylamine	40	ND	28.4	71	58 - 124
N-nitrosodimethylamine	40	ND	20.1	50	35 - 72
Naphthalene	40	ND	30.4	76	47 - 110
Nitrobenzene	40	ND	32.0	80	58 - 115
Pentachlorobenzene	40	ND	33.4	84	61 - 112
Pentachloronitrobenzene	40	ND	34.5	86	65 - 127
Pentachlorophenol	40	ND	32.7	82	11 - 167
Phenacetin	40	ND	38.3	96	55 - 143
Phenanthrene	40	ND	37.4	94	63 - 122
Phenol	40	ND	12.9	32	20 - 64
Pyrene	40	ND	38.3	96	68 - 117
Pyridine	40	ND	21.8	55	5.3 - 85
Safrole	40	ND	33.9	85	56 - 117
bis(-2-Chloroethoxy)methane	40	ND	32.9	82	64 - 114

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34804

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	50
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	40	31.9	80	20 - 104
1,2,4-Trichlorobenzene	40	28.2	71	11 - 97
1,2-Dichlorobenzene	40	27.0	68	11 - 93
1,3-Dichlorobenzene	40	27.6	69	8.3 - 86
1,3-Dinitrobenzene	40	36.7	92	58 - 122
1,4-Dichlorobenzene	40	27.4	69	11 - 86
1,4-Naphthoquinone	40	31.2	78	19 - 133
1-Methylnaphthalene	40	31.2	78	30 - 111
2,2'-oxybis(1-chloropropane)	40	26.1	65	37 - 119
2,3,4,6-Tetrachlorophenol	40	33.9	85	52 - 128
2,4,5-Trichlorophenol	40	36.8	92	54 - 121
2,4,6-Trichlorophenol	40	34.0	85	56 - 120
2,4-Dichlorophenol	40	33.8	85	55 - 112
2,4-Dinitrophenol	40	24.9	62	15 - 134
2,4-Dinitrotoluene	40	33.9	85	59 - 130
2,4-dimethylphenol	40	34.1	85	38 - 117
2,6-Dichlorophenol	40	32.0	80	52 - 112
2,6-Dinitrotoluene	40	35.2	88	56 - 129
2-Chloronaphthalene	40	33.6	84	29 - 118
2-Chlorophenol	40	33.9	85	49 - 104
2-Methylnaphthalene	40	30.4	76	27 - 108
2-Methylphenol	40	30.0	75	41 - 109
2-Nitroaniline	40	32.7	82	48 - 150
2-Nitrophenol	40	33.5	84	53 - 117
3&4-Methylphenol	80	56.6	71	18 - 127
3,3'-Dichlorobenzidine	40	39.5	99	52 - 129
3-Methylcholanthrene	40	38.4	96	51 - 119
3-Nitroaniline	40	33.5	84	53 - 128
4,6-Dinitro-2-methylphenol	40	32.1	80	42 - 121
4-Bromophenyl-phenylether	40	38.6	97	51 - 119
4-Chloro-3-methylphenol	40	31.2	78	51 - 128
4-Chloroaniline	40	31.7	79	37 - 115
4-Chlorophenyl-phenylether	40	35.2	88	47 - 116
4-Nitroaniline	40	34.5	86	44 - 139
4-Nitrophenol	40	20.4	51	22 - 84
4-nitroquinoline-1-oxide	40	24.9	62	30 - 117
Acenaphthene	40	34.1	85	47 - 111
Acenaphthylene	40	34.1	85	50 - 112
Acetophenone	40	30.8	77	35 - 134
Aniline	40	22.9	57	33 - 102
Anthracene	40	37.1	93	58 - 124
Aramite	40	34.4	86	37 - 126
Azobenzene	40	39.0	98	54 - 120
Benzidine	40	9.4	24	10 - 85
Benzo(a)anthracene	40	39.3	98	62 - 120
Benzo(a)pyrene	40	39.6	99	56 - 128
Benzo(b)fluoranthene	40	43.9	110	50 - 135
Benzo(g,h,i)perylene	40	38.8	97	53 - 126
Benzo(k)fluoranthene	40	38.1	95	55 - 126
Benzoic acid	40	7.8	20	17 - 77
Benzyl alcohol	40	28.0	70	31 - 121
Bis(2-Chloroethyl)ether	40	32.6	82	52 - 106

Bis(2-ethylhexyl)phthalate	40	38.4	96	63 - 130
Butylbenzylphthalate	40	37.7	94	60 - 133
Carbazole	40	38.0	95	57 - 127
Chlorobenzilate	40	37.8	95	60 - 131
Chrysene	40	38.6	97	60 - 116
Di-n-butylphthalate	40	38.6	97	60 - 133
Di-n-octyl phthalate	40	38.3	96	48 - 133
Dibenz(a,h)anthracene	40	39.1	98	55 - 130
Dibenzofuran	40	32.8	82	51 - 110
Diethylphthalate	40	36.2	91	38 - 146
Dimethyl phthalate	40	35.8	90	58 - 121
Dinoseb	40	31.4	79	19 - 78
Ethyl methanesulfonate	40	30.4	76	48 - 115
Fluoranthene	40	37.2	93	57 - 128
Fluorene	40	34.1	85	53 - 116
Hexachlorobenzene	40	37.7	94	55 - 116
Hexachlorobutadiene	40	29.3	73	10 - 92
Hexachlorocyclopentadiene	40	28.6	72	1.5 - 108
Hexachloroethane	40	28.2	71	11 - 83
Hexachloropropene	40	27.2	68	13 - 96
Indeno(1,2,3-cd)pyrene	40	39.4	99	54 - 129
Isodrin	40	34.1	85	53 - 124
Isophorone	40	32.6	82	53 - 128
Isosafrole	40	31.5	79	41 - 112
Kepone	40	ND	0	10 - 140
Methyl methanesulfonate	40	30.4	76	25 - 104
N-Nitrosodiphenylamine	40	38.0	95	56 - 115
N-nitroso-di-n-propylamine	40	28.6	72	47 - 126
N-nitrosodimethylamine	40	23.3	58	29 - 76
Naphthalene	40	31.0	78	31 - 104
Nitrobenzene	40	32.2	81	53 - 108
Pentachlorobenzene	40	33.8	85	44 - 110
Pentachloronitrobenzene	40	35.6	89	57 - 127
Pentachlorophenol	40	33.1	83	31 - 121
Phenacetin	40	37.5	94	51 - 142
Phenanthrene	40	38.0	95	56 - 119
Phenol	40	16.1	40	18 - 69
Pyrene	40	37.4	94	62 - 117
Pyridine	40	23.3	58	22 - 75
Safrole	40	34.4	86	49 - 114
bis(-2-Chloroethoxy)methane	40	32.5	81	56 - 112

Comments: There is no recovery for kepone in the LFB or MS.

PN: 12100027

(1)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/17/12 15:15	[signature]	10/17/12 15:15
[signature]	10/17/12 16:00	[signature]	10/17/12 16:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-221
SGD Complete? No
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW	Filtered SVOCs $BNAW			# of Containers	MeOH Vial #	Remarks:
✓	MHK_GZ-10	10/17/12	10:26	GW	X	X				6	–	
✓	MHK_GZ-13	10/16/12	14:51	GW	X	X				6	–	
✓	MHK_GZ-14	10/16/12	11:20	GW	X	X				6	–	
✓	MHK_SH-19	10/16/12	17:38	GW	X	X	X			6	–	Field filtered
✓	OW-221	10/17/12	10:26	GW	X	X				6	–	
✓	EQUIP BLANK	10/17/12	14:44	GW	X	X				6	–	EQUIP BLANK = bladder pump
✓	TRIP BLANK	10/02/12	7:15	GW	X					2	–	Trip blank prepared by EAI.
✓	VLM0860	10/17/12	12:15	GW	X					1	–	
✓	SV0518	10/17/12	12:15	GW		X				1	–	

PN: 12100027

(2)

Shipping Group: 1

Chain-of-Custody

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly M Dube	10/17/12 15:15	Lev Lapin	10/17/12 15:15
Lev Lapin	10/17/12 1600	[illegible]	10/17/12 16:00

To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-231
SGD Complete? No
Site Specific QA/QC? Yes - MHK_PZ-13

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW	Dissolved SVOCs $BNAW			# of Containers	MeOH Vial #	Remarks:
✓	MHK_PZ-01	10/16/12	10:45	GW	X					2	–	
✓	MHK_PZ-02	10/16/12	12:39	GW	X					2	–	
✓	MHK_PZ-03	10/16/12	14:50	GW	X					2	–	
✓	MHK_PZ-04	10/16/12	15:33	GW	X		X			3	–	
✓	MHK_PZ-06	10/17/12	9:20	GW	X					2	–	
✓	MHK_PZ-14	10/17/12	10:30	GW	X		X			3	–	MS/MSD
✓	OW-231	10/17/12	10:30	GW	X		X			3	–	
	EQUIP BLANK	10/17/12	15:00	GW	X ND	X				3	–	
ND	TRIP BLANK	10/02/12	7:15	GW	X ND					2	–	Trip blank prepared by EAI.

PN: 12100027

(3)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly [illegible]	10/17/12 15:15	Leo Lapan	10/17/12 1515
Leo Lapan	10/17/12 16:00	[illegible]	10/17/12 16:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-241
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
✓	MHK_SW-01	10/17/12	12:55	GW	X	X				6	–	
✓	MHK_SW-02	10/17/12	13:31	GW	X	X				6	–	
✓	OW-241	10/17/12	13:31	GW	X	X				6	–	
ND	TRIP BLANK	10/02/12	7:15	GW	X ND					2	–	Trip blank prepared by EAI.
✓	VLM0848	10/17/12	12:15	GW	X	ND X				1	–	
✓	SV0842	10/17/12	12:15	GW	X	X				1	–	

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 31, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100027
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Water
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, method 5030B, rev 2.0 SW-846, Rev 2.0,1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Date Samples Received by the Laboratory: 10/17/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-10	Lab Sample ID:	AB34801
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**3.2**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-10	Lab Sample ID:	AB34801
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	85	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	94	85 - 118
1,4-Bromofluorobenzene	87	78 - 111

Comments: Laboratory blank is associated with samples AB34801 (MS/MS and Duplicate Studies), AB34802, AB34803, AB34808, and AB34820.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-13	Lab Sample ID:	AB34802
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.8**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-13	Lab Sample ID:	AB34802
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	94	85 - 118
1,4-Bromofluorobenzene	87	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-14	Lab Sample ID:	AB34803
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-14	Lab Sample ID:	AB34803
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	85	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SH-19	Lab Sample ID:	AB34804
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**2.0**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.0**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SH-19	Lab Sample ID:	AB34804
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	122	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	86	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	86	78 - 111

Comments: Laboratory blank is associated with samples AB34804 - AB34815 and AB34817 - AB34819.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	OW-221	Lab Sample ID:	AB34805
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**3.1**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	OW-221	Lab Sample ID:	AB34805
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	123	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	85	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34806
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34806
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	126	74 - 136
Toluene-D8	94	85 - 118
1,4-Bromofluorobenzene	83	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34807
Date of Collection:	10/2/2012	Matrix	Blank
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34807
Date of Collection:	10/2/2012	Matrix	Blank
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	125	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	84	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	VLM0860	Lab Sample ID:	AB34808
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	**20**	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	**23**	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	**27**	1.0	
79-00-5	1,1,2-Trichloroethane	**29**	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	**45**	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	**48**	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	**28**	1.0	
106-93-4	1,2-Dibromoethane	**40**	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	**41**	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	**27**	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	**86**	10	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	**8.0**	1.0	
75-15-0	Carbon Disulfide	**30**	1.0	
56-23-5	Carbon tetrachloride	**51**	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	**43**	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	VLM0860	Lab Sample ID:	AB34808
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	**39**	1.0	
124-48-1	Dibromochloromethane	**43**	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	**15**	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	**32**	2.0	
1634-04-4	Methyl-t-Butyl Ether	**98**	10	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	**32**	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	**53**	1.0	
156-60-5	Trans-1,2-Dichloroethylene	**54**	1.0	
79-01-6	Trichloroethylene	**1.0**	1.0	
75-69-4	Trichlorofluoromethane	**33**	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	**28**	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	108	85 - 118
1,4-Bromofluorobenzene	101	78 - 111

Comments: MTBE and MIBK concentrations are derived from a ten-fold dilution.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-01	Lab Sample ID:	AB34809
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-01	Lab Sample ID:	AB34809
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	97	85 - 118
1,4-Bromofluorobenzene	85	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-02	Lab Sample ID:	AB34810
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-02	Lab Sample ID:	AB34810
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	127	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	84	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-03	Lab Sample ID:	AB34811
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-03	Lab Sample ID:	AB34811
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	118	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	85	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-04	Lab Sample ID:	AB34812
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-04	Lab Sample ID:	AB34812
Date of Collection:	10/16/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	129	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	85	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-06	Lab Sample ID:	AB34813
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-06	Lab Sample ID:	AB34813
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	82	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-14	Lab Sample ID:	AB34814
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.2**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-14	Lab Sample ID:	AB34814
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	128	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	83	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	OW-231	Lab Sample ID:	AB34815
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.7**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.1**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	OW-231	Lab Sample ID:	AB34815
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	125	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	84	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SW-01	Lab Sample ID:	AB34817
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	**6.7**	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**23**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SW-01	Lab Sample ID:	AB34817
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	121	74 - 136
Toluene-D8	97	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SW-01	Lab Sample ID:	AB34817
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier

Comments: Tentatively Identified Compounds

	Concentration (ug/L)	Qualifier
Sulfur Dioxide	120	J
Dimethyl sulfide	5.3	J

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SW-02	Lab Sample ID:	AB34818
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/23/12	Amount Prepared	5 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	**1.0**	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**3.2**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SW-02	Lab Sample ID:	AB34818
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/23/12	Amount Prepared	5 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	95	85 - 118
1,4-Bromofluorobenzene	92	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	OW-241	Lab Sample ID:	AB34819
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/23/12	Amount Prepared	5 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	**1.1**	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**2.8**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	OW-241	Lab Sample ID:	AB34819
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/23/12	Amount Prepared	5 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	86	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	VLM0848	Lab Sample ID:	AB34820
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	**21**	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	**24**	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	**28**	1.0	
79-00-5	1,1,2-Trichloroethane	**29**	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	**47**	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	**49**	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	**30**	1.0	
106-93-4	1,2-Dibromoethane	**40**	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	**41**	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	**27**	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	**56**	10	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	**9.5**	1.0	
75-15-0	Carbon Disulfide	**26**	1.0	
56-23-5	Carbon tetrachloride	**48**	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	**43**	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	VLM0848	Lab Sample ID:	AB34820
Date of Collection:	10/17/2012	Matrix	PE
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	**39**	1.0	
124-48-1	Dibromochloromethane	**37**	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	**15**	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	**32**	2.0	
1634-04-4	Methyl-t-Butyl Ether	**97**	10	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	**25**	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	**53**	1.0	
156-60-5	Trans-1,2-Dichloroethylene	**55**	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	**30**	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	**28**	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	107	85 - 118
1,4-Bromofluorobenzene	100	78 - 111

Comments: MTBE and MIBK concentrations are derived from a ten-fold dilution.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB34801

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	20	ND	20	100	67 - 129
1,1,1-Trichloroethane	20	ND	21	105	75 - 139
1,1,2,2-Tetrachloroethane	20	ND	16	80	50 - 142
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	ND	21	105	55 - 135
1,1,2-Trichloroethane	20	ND	19	95	62 - 142
1,1-Dichloroethylene	20	ND	19	95	80 - 138
1,1-Dichloropropene	20	ND	19	95	73 - 131
1,1-dichloroethane	20	3.2	24	104	61 - 152
1,2,3-Trichlorobenzene	20	ND	17	85	49 - 143
1,2,3-Trichloropropane	20	ND	15	75	53 - 135
1,2,4-Trichlorobenzene	20	ND	17	85	63 - 131
1,2,4-Trimethylbenzene	20	ND	20	100	79 - 142
1,2-Dibromo-3-Chloropropane	20	ND	14	70	28 - 122
1,2-Dibromoethane	20	ND	17	85	53 - 139
1,2-Dichlorobenzene	20	ND	19	95	74 - 129
1,2-Dichloroethane	20	ND	19	95	61 - 142
1,2-Dichloropropane	20	ND	19	95	71 - 126
1,3,5-Trimethylbenzene	20	ND	20	100	77 - 140
1,3-Dichlorobenzene	20	ND	19	95	78 - 127
1,3-Dichloropropane	20	ND	18	90	63 - 130
1,4-Dichlorobenzene	20	ND	18	90	72 - 131
2,2-Dichloropropane	20	ND	21	105	50 - 139
2-Butanone (MEK)	20	ND	9.5	48	29 - 163
2-Chlorotoluene	20	ND	20	100	74 - 134
2-Hexanone	20	ND	9.8	49	36 - 141
2-Propanone (acetone)	20	ND	6.6	33	29 - 164
4-Chlorotoluene	20	ND	19	95	68 - 141
4-Methyl-2-Pentanone(MIBK)	20	ND	14	70	35 - 139
Acrylonitrile	20	ND	17	85	42 - 150
Benzene	20	ND	21	105	78 - 134
Bromobenzene	20	ND	18	90	76 - 126
Bromochloromethane	20	ND	20	100	62 - 140
Bromodichloromethane	20	ND	19	95	62 - 133
Bromoform	20	ND	15	75	31 - 133
Bromomethane	20	ND	18	90	58 - 148
Carbon Disulfide	20	ND	20	100	66 - 135
Carbon tetrachloride	20	ND	21	105	62 - 146
Chlorobenzene	20	ND	21	105	74 - 139
Chloroethane	20	ND	21	105	65 - 145
Chloroform	20	ND	22	110	60 - 144
Chloromethane	20	ND	19	95	58 - 134
Dibromochloromethane	20	ND	17	85	34 - 140
Dibromomethane	20	ND	17	85	67 - 125
Dichlorodifluoromethane	20	ND	19	95	30 - 132
Ethyl Ether	20	ND	20	100	58 - 145
Ethylbenzene	20	ND	21	105	73 - 143
Hexachlorobutadiene	20	ND	17	85	56 - 144
Isopropylbenzene	20	ND	18	90	73 - 139

M/P Xylene	40	ND	41	102	79 - 136
Methyl-t-Butyl Ether	20	ND	18	90	50 - 144
Methylene Chloride	20	ND	21	105	70 - 144
N-Butylbenzene	20	ND	20	100	68 - 143
N-Propylbenzene	20	ND	20	100	72 - 149
Naphthalene	20	ND	14	70	33 - 154
Ortho Xylene	20	ND	19	95	80 - 129
Para-Isopropyltoluene	20	ND	18	90	71 - 140
Sec-Butylbenzene	20	ND	21	105	75 - 148
Styrene	20	ND	19	95	61 - 148
Tert-Butylbenzene	20	ND	18	90	71 - 139
Tetrachloroethylene	20	ND	20	100	45 - 145
Tetrahydrofuran	20	ND	15	75	37 - 143
Toluene	20	ND	21	105	77 - 142
Trans-1,2-Dichloroethylene	20	ND	20	100	79 - 139
Trichloroethylene	20	ND	18	90	65 - 143
Trichlorofluoromethane	20	ND	27	135	58 - 161
Vinyl Acetate	20	ND	16	80	22 - 173
Vinyl Chloride	20	ND	21	105	68 - 139
c-1,3-dichloropropene	20	ND	18	90	51 - 144
cis-1,2-Dichloroethylene	20	ND	21	105	59 - 154
t-1,3-Dichloropropene	20	ND	17	85	47 - 145

Comments:

Sample ID: AB34801

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	19	95	5	40
1,1,1-Trichloroethane	20	21	105	0	16
1,1,2,2-Tetrachloroethane	20	20	100	22	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	21	105	0	40
1,1,2-Trichloroethane	20	21	105	10	40
1,1-Dichloroethylene	20	19	95	0	35
1,1-Dichloropropene	20	19	95	0	40
1,1-dichloroethane	20	23	99	5	40
1,2,3-Trichlorobenzene	20	19	95	11	40
1,2,3-Trichloropropane	20	19	95	24	40
1,2,4-Trichlorobenzene	20	18	90	6	40
1,2,4-Trimethylbenzene	20	20	100	0	40
1,2-Dibromo-3-Chloropropane	20	18	90	25	40
1,2-Dibromoethane	20	19	95	11	40
1,2-Dichlorobenzene	20	19	95	0	40
1,2-Dichloroethane	20	20	100	5	23
1,2-Dichloropropane	20	19	95	0	40
1,3,5-Trimethylbenzene	20	20	100	0	40
1,3-Dichlorobenzene	20	18	90	5	40
1,3-Dichloropropane	20	20	100	11	40
1,4-Dichlorobenzene	20	18	90	0	21
2,2-Dichloropropane	20	20	100	5	40
2-Butanone (MEK)	20	14	70	38	40
2-Chlorotoluene	20	19	95	5	40
2-Hexanone	20	14	70	35	40
2-Propanone (acetone)	20	8.8	44	29	40
4-Chlorotoluene	20	19	95	0	40
4-Methyl-2-Pentanone(MIBK)	20	19	95	30	40
Acrylonitrile	20	21	105	21	40
Benzene	20	20	100	5	14
Bromobenzene	20	18	90	0	40
Bromochloromethane	20	21	105	5	40
Bromodichloromethane	20	19	95	0	21
Bromoform	20	17	85	13	40
Bromomethane	20	19	95	5	40
Carbon Disulfide	20	19	95	5	40
Carbon tetrachloride	20	21	105	0	19
Chlorobenzene	20	21	105	0	40
Chloroethane	20	21	105	0	40
Chloroform	20	21	105	5	16
Chloromethane	20	20	100	5	40
Dibromochloromethane	20	18	90	6	36
Dibromomethane	20	19	95	11	40
Dichlorodifluoromethane	20	19	95	0	40
Ethyl Ether	20	22	110	10	40
Ethylbenzene	20	20	100	5	40
Hexachlorobutadiene	20	17	85	0	40
Isopropylbenzene	20	18	90	0	40
M/P Xylene	40	41	102	0	40
Methyl-t-Butyl Ether	20	22	110	20	40
Methylene Chloride	20	21	105	0	40
N-Butylbenzene	20	20	100	0	40
N-Propylbenzene	20	19	95	5	40

Naphthalene	20	18	90	25	40
Ortho Xylene	20	18	90	5	40
Para-Isopropyltoluene	20	18	90	0	40
Sec-Butylbenzene	20	20	100	5	40
Styrene	20	18	90	5	40
Tert-Butylbenzene	20	18	90	0	40
Tetrachloroethylene	20	18	90	11	40
Tetrahydrofuran	20	21	105	33	40
Toluene	20	20	100	5	40
Trans-1,2-Dichloroethylene	20	20	100	0	40
Trichloroethylene	20	18	90	0	22
Trichlorofluoromethane	20	24	120	12	40
Vinyl Acetate	20	20	100	22	40
Vinyl Chloride	20	21	105	0	19
c-1,3-dichloropropene	20	18	90	0	40
cis-1,2-Dichloroethylene	20	20	100	5	40
t-1,3-Dichloropropene	20	18	90	6	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34801

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	30
1,1,1-Trichloroethane	ND	ND	ND	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	30
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	30
1,1,2-Trichloroethane	ND	ND	ND	30
1,1-Dichloroethylene	ND	ND	ND	30
1,1-Dichloropropene	ND	ND	ND	30
1,1-dichloroethane	3.2	3.3	3.08	30
1,2,3-Trichlorobenzene	ND	ND	ND	30
1,2,3-Trichloropropane	ND	ND	ND	30
1,2,4-Trichlorobenzene	ND	ND	ND	30
1,2,4-Trimethylbenzene	ND	ND	ND	30
1,2-Dibromo-3-Chloropropane	ND	ND	ND	30
1,2-Dibromoethane	ND	ND	ND	30
1,2-Dichlorobenzene	ND	ND	ND	30
1,2-Dichloroethane	ND	ND	ND	30
1,2-Dichloropropane	ND	ND	ND	30
1,3,5-Trimethylbenzene	ND	ND	ND	30
1,3-Dichlorobenzene	ND	ND	ND	30
1,3-Dichloropropane	ND	ND	ND	30
1,4-Dichlorobenzene	ND	ND	ND	30
2,2-Dichloropropane	ND	ND	ND	30
2-Butanone (MEK)	ND	ND	ND	30
2-Chlorotoluene	ND	ND	ND	30
2-Hexanone	ND	ND	ND	30
2-Propanone (acetone)	ND	ND	ND	30
4-Chlorotoluene	ND	ND	ND	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	30
Acrylonitrile	ND	ND	ND	30
Benzene	ND	ND	ND	30
Bromobenzene	ND	ND	ND	30
Bromochloromethane	ND	ND	ND	30
Bromodichloromethane	ND	ND	ND	30
Bromoform	ND	ND	ND	30
Bromomethane	ND	ND	ND	30
Carbon Disulfide	ND	ND	ND	30
Carbon tetrachloride	ND	ND	ND	30
Chlorobenzene	ND	ND	ND	30
Chloroethane	ND	ND	ND	30
Chloroform	ND	ND	ND	30
Chloromethane	ND	ND	ND	30
Dibromochloromethane	ND	ND	ND	30
Dibromomethane	ND	ND	ND	30
Dichlorodifluoromethane	ND	ND	ND	30
Ethyl Ether	ND	ND	ND	30
Ethylbenzene	ND	ND	ND	30
Hexachlorobutadiene	ND	ND	ND	30
Isopropylbenzene	ND	ND	ND	30
M/P Xylene	ND	ND	ND	30

Methyl-t-Butyl Ether	ND	ND	ND	30
Methylene Chloride	ND	ND	ND	30
N-Butylbenzene	ND	ND	ND	30
N-Propylbenzene	ND	ND	ND	30
Naphthalene	ND	ND	ND	30
Ortho Xylene	ND	ND	ND	30
Para-Isopropyltoluene	ND	ND	ND	30
Sec-Butylbenzene	ND	ND	ND	30
Styrene	ND	ND	ND	30
Tert-Butylbenzene	ND	ND	ND	30
Tetrachloroethylene	ND	ND	ND	30
Tetrahydrofuran	ND	ND	ND	30
Toluene	ND	ND	ND	30
Trans-1,2-Dichloroethylene	ND	ND	ND	30
Trichloroethylene	ND	ND	ND	30
Trichlorofluoromethane	ND	ND	ND	30
Vinyl Acetate	ND	ND	ND	30
Vinyl Chloride	ND	ND	ND	30
c-1,3-dichloropropene	ND	ND	ND	30
cis-1,2-Dichloroethylene	ND	ND	ND	30
t-1,3-Dichloropropene	ND	ND	ND	30

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	20	100	79 - 136
1,1,1-Trichloroethane	20	21	105	75 - 146
1,1,2,2-Tetrachloroethane	20	15	75	62 - 141
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21	105	56 - 130
1,1,2-Trichloroethane	20	18	90	75 - 138
1,1-Dichloroethylene	20	20	100	75 - 136
1,1-Dichloropropene	20	20	100	77 - 137
1,1-dichloroethane	20	20	100	76 - 142
1,2,3-Trichlorobenzene	20	18	90	64 - 143
1,2,3-Trichloropropane	20	15	75	66 - 133
1,2,4-Trichlorobenzene	20	18	90	80 - 131
1,2,4-Trimethylbenzene	20	20	100	74 - 155
1,2-Dibromo-3-Chloropropane	20	14	70	37 - 139
1,2-Dibromoethane	20	16	80	72 - 135
1,2-Dichlorobenzene	20	19	95	85 - 128
1,2-Dichloroethane	20	18	90	74 - 138
1,2-Dichloropropane	20	19	95	83 - 124
1,3,5-Trimethylbenzene	20	20	100	80 - 145
1,3-Dichlorobenzene	20	19	95	84 - 130
1,3-Dichloropropane	20	17	85	77 - 129
1,4-Dichlorobenzene	20	18	90	82 - 128
2,2-Dichloropropane	20	22	110	32 - 171
2-Butanone (MEK)	20	16	80	38 - 179
2-Chlorotoluene	20	20	100	78 - 134
2-Hexanone	20	15	75	45 - 158
2-Propanone (acetone)	20	18	90	14 - 209
4-Chlorotoluene	20	19	95	75 - 144
4-Methyl-2-Pentanone(MIBK)	20	14	70	40 - 144
Acrylonitrile	20	15	75	52 - 154
Benzene	20	20	100	83 - 130
Bromobenzene	20	19	95	85 - 126
Bromochloromethane	20	20	100	69 - 137
Bromodichloromethane	20	19	95	70 - 143
Bromoform	20	15	75	51 - 136
Bromomethane	20	18	90	65 - 140
Carbon Disulfide	20	22	110	68 - 140
Carbon tetrachloride	20	21	105	70 - 144
Chlorobenzene	20	20	100	84 - 131
Chloroethane	20	21	105	70 - 134
Chloroform	20	21	105	76 - 141
Chloromethane	20	18	90	63 - 123
Dibromochloromethane	20	17	85	39 - 154
Dibromomethane	20	17	85	79 - 124
Dichlorodifluoromethane	20	19	95	37 - 117
Ethyl Ether	20	18	90	67 - 140
Ethylbenzene	20	20	100	81 - 133
Hexachlorobutadiene	20	18	90	68 - 146
Isopropylbenzene	20	19	95	78 - 137
M/P Xylene	40	41	103	68 - 155
Methyl-t-Butyl Ether	20	18	90	63 - 144
Methylene Chloride	20	20	100	75 - 140
N-Butylbenzene	20	21	105	69 - 147

N-Propylbenzene	20	20	100	76 - 138
Naphthalene	20	14	70	53 - 155
Ortho Xylene	20	19	95	85 - 135
Para-Isopropyltoluene	20	18	90	77 - 141
Sec-Butylbenzene	20	21	105	80 - 141
Styrene	20	18	90	82 - 139
Tert-Butylbenzene	20	18	90	75 - 144
Tetrachloroethylene	20	20	100	32 - 173
Tetrahydrofuran	20	15	75	47 - 149
Toluene	20	21	105	85 - 134
Trans-1,2-Dichloroethylene	20	20	100	80 - 138
Trichloroethylene	20	20	100	76 - 135
Trichlorofluoromethane	20	20	100	60 - 149
Vinyl Acetate	20	15	75	38 - 187
Vinyl Chloride	20	20	100	66 - 133
c-1,3-dichloropropene	20	18	90	68 - 149
cis-1,2-Dichloroethylene	20	21	105	76 - 143
t-1,3-Dichloropropene	20	17	85	62 - 160

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	100	0	50
1,1,1-Trichloroethane	21	105	0	50
1,1,2,2-Tetrachloroethane	19	95	24	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	22	110	5	50
1,1,2-Trichloroethane	21	105	15	50
1,1-Dichloroethylene	23	115	14	52
1,1-Dichloropropene	19	95	5	50
1,1-dichloroethane	20	100	0	50
1,2,3-Trichlorobenzene	19	95	5	50
1,2,3-Trichloropropane	18	90	18	50
1,2,4-Trichlorobenzene	18	90	0	50
1,2,4-Trimethylbenzene	20	100	0	50
1,2-Dibromo-3-Chloropropane	18	90	25	50
1,2-Dibromoethane	20	100	22	50
1,2-Dichlorobenzene	19	95	0	50
1,2-Dichloroethane	20	100	11	50
1,2-Dichloropropane	19	95	0	50
1,3,5-Trimethylbenzene	19	95	5	50
1,3-Dichlorobenzene	18	90	5	50
1,3-Dichloropropane	20	100	16	50
1,4-Dichlorobenzene	18	90	0	50
2,2-Dichloropropane	21	105	5	50
2-Butanone (MEK)	22	110	32	50
2-Chlorotoluene	19	95	5	50
2-Hexanone	21	105	33	50
2-Propanone (acetone)	22	110	20	50
4-Chlorotoluene	19	95	0	50
4-Methyl-2-Pentanone(MIBK)	20	100	35	50
Acrylonitrile	21	105	33	50
Benzene	20	100	0	50
Bromobenzene	19	95	0	50
Bromochloromethane	21	105	5	50
Bromodichloromethane	20	100	5	50
Bromoform	17	85	13	50
Bromomethane	18	90	0	50
Carbon Disulfide	19	95	15	50
Carbon tetrachloride	21	105	0	50
Chlorobenzene	20	100	0	34
Chloroethane	21	105	0	50
Chloroform	21	105	0	50
Chloromethane	18	90	0	50
Dibromochloromethane	18	90	6	50
Dibromomethane	19	95	11	50
Dichlorodifluoromethane	18	90	5	50
Ethyl Ether	22	110	20	50
Ethylbenzene	20	100	0	50
Hexachlorobutadiene	17	85	6	50
Isopropylbenzene	18	90	5	50
M/P Xylene	40	100	3	50
Methyl-t-Butyl Ether	22	110	20	50
Methylene Chloride	20	100	0	50
N-Butylbenzene	20	100	5	50
N-Propylbenzene	19	95	5	50
Naphthalene	17	85	19	50
Ortho Xylene	18	90	5	50

Para-Isopropyltoluene	18	90	0	50
Sec-Butylbenzene	20	100	5	50
Styrene	18	90	0	50
Tert-Butylbenzene	18	90	0	50
Tetrachloroethylene	19	95	5	50
Tetrahydrofuran	20	100	29	50
Toluene	20	100	5	50
Trans-1,2-Dichloroethylene	20	100	0	50
Trichloroethylene	19	95	5	27
Trichlorofluoromethane	23	115	14	50
Vinyl Acetate	20	100	29	50
Vinyl Chloride	19	95	5	50
c-1,3-dichloropropene	18	90	0	50
cis-1,2-Dichloroethylene	21	105	0	50
t-1,3-Dichloropropene	18	90	6	50

Samples in Batch: AB34801, AB34802, AB34803, AB34804, AB34805, AB34806, AB34807, AB34808, AB34809, AB34810, AB34811, AB34812, AB34813, AB34814, AB34815, AB34817, AB34818, AB34819, AB34820

PN: 12100027

(1)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/17/12 15:15	[signature]	10/17/12 15:15
[signature]	10/17/12 16:00	[signature]	10/17/12 16:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-221
SGD Complete? No
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW	Filtered SVOCs $BNAW			# of Containers	MeOH Vial #	Remarks:
✓	MHK_GZ-10	10/17/12	10:26	GW	X	X				6	–	
✓	MHK_GZ-13	10/16/12	14:51	GW	X	X				6	–	
✓	MHK_GZ-14	10/16/12	11:20	GW	X	X				6	–	
✓	MHK_SH-19	10/16/12	17:38	GW	X	X	X			6	–	Field filtered
✓	OW-221	10/17/12	10:26	GW	X	X				6	–	
✓	EQUIP BLANK	10/17/12	14:44	GW	X	X				6	–	EQUIP BLANK = bladder pump
✓	TRIP BLANK	10/02/12	7:15	GW	X					2	–	Trip blank prepared by EAI.
✓	VLM0860	10/17/12	12:15	GW	X					1	–	
✓	SV0518	10/17/12	12:15	GW		X				1	–	

PN: 12100027

(2)

Shipping Group: 1

Chain-of-Custody

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly M Dube	10/17/12 15:15	Lev Lapin	10/17/12 15:15
Lev Lapin	10/17/12 1600	[illegible]	10/17/12 16:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-231
SGD Complete? No
Site Specific QA/QC? Yes - MHK_PZ-13

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW	Dissolved SVOCs $BNAW			# of Containers	MeOH Vial #	Remarks:
✓	MHK_PZ-01	10/16/12	10:45	GW	X					2	–	
✓	MHK_PZ-02	10/16/12	12:39	GW	X					2	–	
✓	MHK_PZ-03	10/16/12	14:50	GW	X					2	–	
✓	MHK_PZ-04	10/16/12	15:33	GW	X		X			3	–	
✓	MHK_PZ-06	10/17/12	9:20	GW	X					2	–	
✓	MHK_PZ-14	10/17/12	10:30	GW	X		X			3	–	MS/MSD
✓	OW-231	10/17/12	10:30	GW	X		X			3	–	
	EQUIP BLANK	10/17/12	15:00	GW	X ND	X				3	–	
ND	TRIP BLANK	10/02/12	7:15	GW	X ND					2	–	Trip blank prepared by EAI.

PN: 12100027

(3)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly [illegible]	10/17/12 15:15	Leo Lapan	10/17/12 1515
Leo Lapan	10/17/12 16:00	[illegible]	10/17/12 16:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-241
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
✓	MHK_SW-01	10/17/12	12:55	GW	X	X				6	–	
✓	MHK_SW-02	10/17/12	13:31	GW	X	X				6	–	
✓	OW-241	10/17/12	13:31	GW	X	X				6	–	
ND	TRIP BLANK	10/02/12	7:15	GW	X ND					2	–	Trip blank prepared by EAI.
✓	VLM0848	10/17/12	12:15	GW	X	ND X				1	–	
✓	SV0842	10/17/12	12:15	GW	X	X				1	–	

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 25, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100033
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in Water
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAW2.

Samples were prepared using separatory funnel liquid-liquid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this method is based on the US EPA SW-846 Methods 3510C, 8270C, Method 625, and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/19/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-08	Lab Sample ID:	AB34884
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-08	Lab Sample ID:	AB34884
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-08	Lab Sample ID:	AB34884
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	43	12 - 74
Phenol-d6 (SS2)	27	6 - 52
Nitrobenzene-d5 (SS3)	73	32 - 114
2-Fluorobiphenyl (SS4)	79	33 - 119
2,4,6-Tribromophenol (SS5)	65	30 - 144
p-Terphenyl-d14 (SS6)	93	40 - 132

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-09	Lab Sample ID:	AB34885
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-09	Lab Sample ID:	AB34885
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	**2.6**	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-09	Lab Sample ID:	AB34885
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	46	12 - 74
Phenol-d6 (SS2)	30	6 - 52
Nitrobenzene-d5 (SS3)	77	32 - 114
2-Fluorobiphenyl (SS4)	81	33 - 119
2,4,6-Tribromophenol (SS5)	70	30 - 144
p-Terphenyl-d14 (SS6)	93	40 - 132

Comments:

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-10	Lab Sample ID:	AB34886
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-10	Lab Sample ID:	AB34886
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-10	Lab Sample ID:	AB34886
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	30	12 - 74
Phenol-d6 (SS2)	22	6 - 52
Nitrobenzene-d5 (SS3)	59	32 - 114
2-Fluorobiphenyl (SS4)	68	33 - 119
2,4,6-Tribromophenol (SS5)	54	30 - 144
p-Terphenyl-d14 (SS6)	89	40 - 132

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-12	Lab Sample ID:	AB34888
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-12	Lab Sample ID:	AB34888
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-12	Lab Sample ID:	AB34888
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	50	12 - 74
Phenol-d6 (SS2)	30	6 - 52
Nitrobenzene-d5 (SS3)	76	32 - 114
2-Fluorobiphenyl (SS4)	79	33 - 119
2,4,6-Tribromophenol (SS5)	77	30 - 144
p-Terphenyl-d14 (SS6)	98	40 - 132

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-15	Lab Sample ID:	AB34890
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-15	Lab Sample ID:	AB34890
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-15	Lab Sample ID:	AB34890
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	38	12 - 74
Phenol-d6 (SS2)	25	6 - 52
Nitrobenzene-d5 (SS3)	72	32 - 114
2-Fluorobiphenyl (SS4)	78	33 - 119
2,4,6-Tribromophenol (SS5)	62	30 - 144
p-Terphenyl-d14 (SS6)	94	40 - 132

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	68	34 - 122
2-Fluorobiphenyl (SS4)	75	46 - 112
2-Fluorophenol (SS1)	51	23 - 74
Nitrobenzene-d5 (SS3)	72	33 - 122
Phenol-d6 (SS2)	34	13 - 53
p-Terphenyl-d14 (SS6)	95	52 - 126

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-11	Lab Sample ID:	AB34891
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-11	Lab Sample ID:	AB34891
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_GZ-11	Lab Sample ID:	AB34891
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	38	12 - 74
Phenol-d6 (SS2)	25	6 - 52
Nitrobenzene-d5 (SS3)	61	32 - 114
2-Fluorobiphenyl (SS4)	68	33 - 119
2,4,6-Tribromophenol (SS5)	54	30 - 144
p-Terphenyl-d14 (SS6)	80	40 - 132

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-13	Lab Sample ID:	AB34892
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-13	Lab Sample ID:	AB34892
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	20	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	J
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_SH-13	Lab Sample ID:	AB34892
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	1000 mL
Date of Analysis:	10/23/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	5.0	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	53	12 - 74
Phenol-d6 (SS2)	31	6 - 52
Nitrobenzene-d5 (SS3)	75	32 - 114
2-Fluorobiphenyl (SS4)	79	33 - 119
2,4,6-Tribromophenol (SS5)	74	30 - 144
p-Terphenyl-d14 (SS6)	93	40 - 132

Comments: Kepone did not meet the initial calibration criterion.

The reporting levels for several compounds have been elevated to reflect the calibration range of the method.

MATRIX SPIKE (MS)

Mohawk Tannery - Nashua, NH

Sample ID: AB34892

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	40	ND	29.5	74	50 - 104
1,2,4-Trichlorobenzene	40	ND	26.7	67	31 - 106
1,2-Dichlorobenzene	40	ND	25.8	65	26 - 103
1,3-Dichlorobenzene	40	ND	25.1	63	20 - 100
1,3-Dinitrobenzene	40	ND	39.8	100	31 - 152
1,4-Dichlorobenzene	40	ND	25.4	64	21 - 100
1,4-Naphthoquinone	40	ND	35.1	88	52 - 110
1-Methylnaphthalene	40	ND	30.5	76	54 - 110
2,2'-oxybis(1-chloropropane)	40	ND	29.2	73	43 - 124
2,3,4,6-Tetrachlorophenol	40	ND	35.5	89	63 - 127
2,4,5-Trichlorophenol	40	ND	34.9	87	62 - 125
2,4,6-Trichlorophenol	40	ND	33.0	83	67 - 119
2,4-Dichlorophenol	40	ND	32.4	81	64 - 113
2,4-Dinitrophenol	40	ND	30.4	76	28 - 139
2,4-Dinitrotoluene	40	ND	36.3	91	64 - 131
2,4-dimethylphenol	40	ND	14.4	36	21 - 123
2,6-Dichlorophenol	40	ND	31.3	78	63 - 111
2,6-Dinitrotoluene	40	ND	35.1	88	65 - 127
2-Chloronaphthalene	40	ND	31.3	78	50 - 120
2-Chlorophenol	40	ND	28.2	71	57 - 105
2-Methylnaphthalene	40	ND	30.3	76	53 - 107
2-Methylphenol	40	ND	23.9	60	47 - 105
2-Nitroaniline	40	ND	35.0	88	58 - 144
2-Nitrophenol	40	ND	29.8	75	59 - 124
3&4-Methylphenol	80	ND	49.6	62	13 - 144
3,3'-Dichlorobenzidine	40	ND	30.2	76	5.0 - 163
3-Methylcholanthrene	40	ND	33.3	83	23 - 166
3-Nitroaniline	40	ND	29.6	74	45 - 129
4,6-Dinitro-2-methylphenol	40	ND	30.7	77	45 - 128
4-Bromophenyl-phenylether	40	ND	32.8	82	63 - 121
4-Chloro-3-methylphenol	40	ND	33.9	85	65 - 119
4-Chloroaniline	40	ND	24.8	62	7.8 - 122
4-Chlorophenyl-phenylether	40	ND	32.8	82	61 - 116
4-Nitroaniline	40	ND	32.1	80	41 - 139
4-Nitrophenol	40	ND	14.0	35	5.8 - 109
4-nitroquinoline-1-oxide	40	ND	27.4	69	38 - 108
Acenaphthene	40	ND	32.3	81	61 - 113
Acenaphthylene	40	ND	34.3	86	62 - 113
Acetophenone	40	ND	31.5	79	61 - 113
Aniline	40	ND	17.9	45	17 - 109
Anthracene	40	ND	34.7	87	68 - 121
Aramite	40	ND	36.8	92	24 - 158
Azobenzene	40	ND	33.3	83	60 - 123
Benzidine	40	ND	ND	ND	10 - 80
Benzo(a)anthracene	40	ND	35.0	88	69 - 119
Benzo(a)pyrene	40	ND	34.6	87	57 - 132
Benzo(b)fluoranthene	40	ND	35.4	89	55 - 139
Benzo(g,h,i)perylene	40	ND	36.1	90	60 - 130

Benzo(k)fluoranthene	40	ND	33.7	84	62 - 126
Benzoic acid	40	ND	16.3	41	3.7 - 86
Benzyl alcohol	40	ND	27.0	68	23 - 133
Bis(2-Chloroethyl)ether	40	ND	30.6	77	57 - 111
Bis(2-ethylhexyl)phthalate	40	ND	36.1	90	37 - 155
Butylbenzylphthalate	40	ND	35.4	89	64 - 133
Carbazole	40	ND	36.8	92	62 - 128
Chlorobenzilate	40	ND	35.5	89	55 - 146
Chrysene	40	ND	33.3	83	71 - 110
Di-n-butylphthalate	40	ND	39.5	99	68 - 135
Di-n-octyl phthalate	40	ND	39.0	98	35 - 160
Dibenz(a,h)anthracene	40	ND	37.1	93	58 - 137
Dibenzofuran	40	ND	33.6	84	62 - 113
Diethylphthalate	40	ND	35.8	90	56 - 131
Dimethyl phthalate	40	ND	35.1	88	64 - 121
Dinoseb	40	ND	31.1	78	46 - 121
Ethyl methanesulfonate	40	ND	32.0	80	56 - 117
Fluoranthene	40	ND	37.1	93	64 - 128
Fluorene	40	ND	33.9	85	63 - 119
Hexachlorobenzene	40	ND	32.3	81	62 - 118
Hexachlorobutadiene	40	ND	25.1	63	9.5 - 107
Hexachlorocyclopentadiene	40	ND	29.8	75	11 - 117
Hexachloroethane	40	ND	24.1	60	6.9 - 101
Hexachloropropene	40	ND	26.1	65	8.1 - 110
Indeno(1,2,3-cd)pyrene	40	ND	36.7	92	62 - 129
Isodrin	40	ND	33.4	84	63 - 119
Isophorone	40	ND	32.1	80	60 - 130
Isosafrole	40	ND	30.7	77	59 - 112
Kepone	40	ND	ND	ND	8.3 - 117
Methyl methanesulfonate	40	ND	28.5	71	37 - 98
N-Nitrosodiphenylamine	40	ND	32.4	81	58 - 117
N-nitroso-di-n-propylamine	40	ND	31.1	78	58 - 124
N-nitrosodimethylamine	40	ND	20.0	50	35 - 72
Naphthalene	40	ND	31.1	78	47 - 110
Nitrobenzene	40	ND	30.3	76	58 - 115
Pentachlorobenzene	40	ND	31.4	79	61 - 112
Pentachloronitrobenzene	40	ND	34.0	85	65 - 127
Pentachlorophenol	40	ND	30.2	76	11 - 167
Phenacetin	40	ND	39.0	98	55 - 143
Phenanthrene	40	ND	35.6	89	63 - 122
Phenol	40	ND	13.1	33	20 - 64
Pyrene	40	ND	36.1	90	68 - 117
Pyridine	40	ND	13.7	34	5.3 - 85
Safrole	40	ND	32.7	82	56 - 117
bis(-2-Chloroethoxy)methane	40	ND	33.1	83	64 - 114

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34891

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	50
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	40	30.3	76	20 - 104
1,2,4-Trichlorobenzene	40	28.1	70	11 - 97
1,2-Dichlorobenzene	40	27.1	68	11 - 93
1,3-Dichlorobenzene	40	26.3	66	8.3 - 86
1,3-Dinitrobenzene	40	23.7	59	58 - 122
1,4-Dichlorobenzene	40	26.4	66	11 - 86
1,4-Naphthoquinone	40	35.7	89	19 - 133
1-Methylnaphthalene	40	31.8	80	30 - 111
2,2'-oxybis(1-chloropropane)	40	29.7	74	37 - 119
2,3,4,6-Tetrachlorophenol	40	35.1	88	52 - 128
2,4,5-Trichlorophenol	40	34.3	86	54 - 121
2,4,6-Trichlorophenol	40	33.9	85	56 - 120
2,4-Dichlorophenol	40	33.0	83	55 - 112
2,4-Dinitrophenol	40	22.6	57	15 - 134
2,4-Dinitrotoluene	40	36.2	91	59 - 130
2,4-dimethylphenol	40	32.6	82	38 - 117
2,6-Dichlorophenol	40	32.4	81	52 - 112
2,6-Dinitrotoluene	40	35.8	90	56 - 129
2-Chloronaphthalene	40	32.5	81	29 - 118
2-Chlorophenol	40	29.8	75	49 - 104
2-Methylnaphthalene	40	31.5	79	27 - 108
2-Methylphenol	40	29.3	73	41 - 109
2-Nitroaniline	40	35.3	88	48 - 150
2-Nitrophenol	40	30.0	75	53 - 117
3&4-Methylphenol	80	58.9	74	18 - 127
3,3'-Dichlorobenzidine	40	35.6	89	52 - 129
3-Methylcholanthrene	40	35.5	89	51 - 119
3-Nitroaniline	40	31.8	80	53 - 128
4,6-Dinitro-2-methylphenol	40	29.3	73	42 - 121
4-Bromophenyl-phenylether	40	33.8	85	51 - 119
4-Chloro-3-methylphenol	40	34.9	87	51 - 128
4-Chloroaniline	40	28.1	70	37 - 115
4-Chlorophenyl-phenylether	40	33.8	85	47 - 116
4-Nitroaniline	40	34.1	85	44 - 139
4-Nitrophenol	40	9.7	24	22 - 84
4-nitroquinoline-1-oxide	40	28.8	72	30 - 117
Acenaphthene	40	33.3	83	47 - 111
Acenaphthylene	40	35.3	88	50 - 112
Acetophenone	40	32.5	81	35 - 134
Aniline	40	23.4	59	33 - 102
Anthracene	40	35.7	89	58 - 124
Aramite	40	37.2	93	37 - 126
Azobenzene	40	34.2	86	54 - 120
Benzidine	40	7.0	18	10 - 85
Benzo(a)anthracene	40	36.0	90	62 - 120
Benzo(a)pyrene	40	35.6	89	56 - 128
Benzo(b)fluoranthene	40	38.1	95	50 - 135
Benzo(g,h,i)perylene	40	36.4	91	53 - 126
Benzo(k)fluoranthene	40	32.2	81	55 - 126
Benzoic acid	40	11.2	28	17 - 77
Benzyl alcohol	40	29.7	74	31 - 121
Bis(2-Chloroethyl)ether	40	31.8	80	52 - 106

Bis(2-ethylhexyl)phthalate	40	37.6	94	63 - 130
Butylbenzylphthalate	40	36.6	92	60 - 133
Carbazole	40	37.6	94	57 - 127
Chlorobenzilate	40	35.7	89	60 - 131
Chrysene	40	34.0	85	60 - 116
Di-n-butylphthalate	40	40.0	100	60 - 133
Di-n-octyl phthalate	40	40.6	102	48 - 133
Dibenz(a,h)anthracene	40	37.8	95	55 - 130
Dibenzofuran	40	34.7	87	51 - 110
Diethylphthalate	40	35.3	88	38 - 146
Dimethyl phthalate	40	35.1	88	58 - 121
Dinoseb	40	30.7	77	19 - 78
Ethyl methanesulfonate	40	32.8	82	48 - 115
Fluoranthene	40	37.8	95	57 - 128
Fluorene	40	34.5	86	53 - 116
Hexachlorobenzene	40	33.2	83	55 - 116
Hexachlorobutadiene	40	27.1	68	10 - 92
Hexachlorocyclopentadiene	40	32.7	82	1.5 - 108
Hexachloroethane	40	25.2	63	11 - 83
Hexachloropropene	40	27.2	68	13 - 96
Indeno(1,2,3-cd)pyrene	40	37.1	93	54 - 129
Isodrin	40	34.2	86	53 - 124
Isophorone	40	32.7	82	53 - 128
Isosafrole	40	31.8	80	41 - 112
Kepone	40	ND	0	10 - 140
Methyl methanesulfonate	40	30.2	76	25 - 104
N-Nitrosodiphenylamine	40	34.0	85	56 - 115
N-nitroso-di-n-propylamine	40	31.8	80	47 - 126
N-nitrosodimethylamine	40	22.2	56	29 - 76
Naphthalene	40	32.6	82	31 - 104
Nitrobenzene	40	31.0	78	53 - 108
Pentachlorobenzene	40	32.2	81	44 - 110
Pentachloronitrobenzene	40	34.8	87	57 - 127
Pentachlorophenol	40	30.5	76	31 - 121
Phenacetin	40	40.0	100	51 - 142
Phenanthrene	40	35.9	90	56 - 119
Phenol	40	16.7	42	18 - 69
Pyrene	40	36.4	91	62 - 117
Pyridine	40	20.8	52	22 - 75
Safrole	40	34.3	86	49 - 114
bis(-2-Chloroethoxy)methane	40	33.6	84	56 - 112

Comments:

PN: 12100033

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
	10/18/12 17:20		10/18/12 17:20
	10/19/12 12:40		10/19/12 12:40
	10/19/12		10/19/12 14:15

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-231
SGD Complete? Yes
Site Specific QA/QC? Yes - MHK_PZ-13

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	Dissolved SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
✓	MHK_PZ-05	10/17/12	15:03	GW	X					2	–	
✓	MHK_PZ-07	10/18/12	10:52	GW	X	X				3	–	
✓	MHK_PZ-08	10/18/12	12:35	GW	X	X				3	–	
✓	MHK_PZ-09	10/18/12	14:12	GW	X	X				3	–	
✓	MHK_PZ-10	10/18/12	12:17	GW	X	X				3	–	
✓	MHK_PZ-11	10/17/12	15:20	GW	X					2	–	
✓	MHK_PZ-12	10/18/12	13:48	GW	X	X				3	–	
✓	MHK_PZ-13	10/18/12	11:29	GW	X					2	–	
✓	MHK_PZ-15	10/18/12	9:25	GW	X	X				3	–	
NO SAMPLE	TRIP BLANK	10/02/12	7:15	AQ	X					2	–	Trip blank prepared by EAI.
NO SAMPLE	EQUIP BLANK	10/17/12	15:00	AQ	X					2	–	

PN: 12100033

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
	10/18/12 17:20		10/18/12 17:20
	10/19/12 12:40		10/19/12 12:40
	10/19/12		10/19/12 14:15

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-221
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
✓	MHK_GZ-11	10/17/12	16:14	GW	X	X				6	–	
✓	MHK_SH-13	10/18/12	11:53	GW	X	X				6	–	
✓	TRIP BLANK	10/02/12	7:15	GW	X					2	–	Trip blank prepared by EAI.

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 31, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100033
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Water
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, method 5030B, rev 2.0 SW-846, Rev 2.0,1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Date Samples Received by the Laboratory: 10/19/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-05	Lab Sample ID:	AB34882
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-05	Lab Sample ID:	AB34882
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	101	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	99	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Comments: Laboratory blank is associated with samples AB34882 (MS/MSD and Duplicate Studies).

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB34883
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.1**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB34883
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5.0 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	102	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	96	78 - 111

Comments: Laboratory blank is associated with samples AB34883 - AB34894.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-08	Lab Sample ID:	AB34884
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-08	Lab Sample ID:	AB34884
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-09	Lab Sample ID:	AB34885
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.8**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-09	Lab Sample ID:	AB34885
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	**1.2**	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-10	Lab Sample ID:	AB34886
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**2.0**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-10	Lab Sample ID:	AB34886
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	**1.1**	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	107	74 - 136
Toluene-D8	100	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-11	Lab Sample ID:	AB34887
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.1**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-11	Lab Sample ID:	AB34887
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	107	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-12	Lab Sample ID:	AB34888
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.5**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.1**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-12	Lab Sample ID:	AB34888
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	93	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-13	Lab Sample ID:	AB34889
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.7**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-13	Lab Sample ID:	AB34889
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	100	85 - 118
1,4-Bromofluorobenzene	92	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-15	Lab Sample ID:	AB34890
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**1.0**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-15	Lab Sample ID:	AB34890
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-11	Lab Sample ID:	AB34891
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	**3.3**	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_GZ-11	Lab Sample ID:	AB34891
Date of Collection:	10/17/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	**1.1**	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SH-13	Lab Sample ID:	AB34892
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_SH-13	Lab Sample ID:	AB34892
Date of Collection:	10/18/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	112	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	93	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34893
Date of Collection:	10/2/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	J
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	J
75-35-4	1,1-Dichloroethylene	ND	1.0	J
563-58-6	1,1-Dichloropropene	ND	1.0	J
75-34-3	1,1-dichloroethane	ND	1.0	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	J
96-18-4	1,2,3-Trichloropropane	ND	1.0	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	J
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	J
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	J
106-93-4	1,2-Dibromoethane	ND	1.0	J
95-50-1	1,2-Dichlorobenzene	ND	1.0	J
107-06-2	1,2-Dichloroethane	ND	1.0	J
78-87-5	1,2-Dichloropropane	ND	1.0	J
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	J
142-28-9	1,3-Dichloropropane	ND	1.0	J
106-46-7	1,4-Dichlorobenzene	ND	1.0	J
594-20-7	2,2-Dichloropropane	ND	1.0	J
78-93-3	2-Butanone (MEK)	ND	1.0	J
95-49-8	2-Chlorotoluene	ND	1.0	J
591-78-6	2-Hexanone	ND	1.0	J
67-64-1	2-Propanone (acetone)	ND	1.0	J
106-43-4	4-Chlorotoluene	ND	1.0	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	J
107-13-1	Acrylonitrile	ND	1.0	J
71-43-2	Benzene	ND	1.0	J
108-86-1	Bromobenzene	ND	1.0	J
74-97-5	Bromochloromethane	ND	1.0	J
75-27-4	Bromodichloromethane	ND	1.0	J
75-25-2	Bromoform	ND	1.0	J
74-83-9	Bromomethane	ND	1.0	J
75-15-0	Carbon Disulfide	ND	1.0	J
56-23-5	Carbon tetrachloride	ND	1.0	J
108-90-7	Chlorobenzene	ND	1.0	J
75-00-3	Chloroethane	ND	1.0	J
67-66-3	Chloroform	ND	1.0	J

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34893
Date of Collection:	10/2/2012	Matrix	GW
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	J
124-48-1	Dibromochloromethane	ND	1.0	J
74-95-3	Dibromomethane	ND	1.0	J
75-71-8	Dichlorodifluoromethane	ND	1.0	J
60-29-7	Ethyl Ether	ND	1.0	J
100-41-4	Ethylbenzene	ND	1.0	J
87-68-3	Hexachlorobutadiene	ND	1.0	J
98-82-8	Isopropylbenzene	ND	1.0	J
108-38-3/106-42-	M/P Xylene	ND	2.0	J
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	J
75-09-2	Methylene Chloride	ND	1.0	J
104-51-8	N-Butylbenzene	ND	1.0	J
103-65-1	N-Propylbenzene	ND	1.0	J
91-20-3	Naphthalene	ND	1.0	J
95-47-6	Ortho Xylene	ND	1.0	J
99-87-6	Para-Isopropyltoluene	ND	1.0	J
135-98-8	Sec-Butylbenzene	ND	1.0	J
100-42-5	Styrene	ND	1.0	J
98-06-6	Tert-Butylbenzene	ND	1.0	J
127-18-4	Tetrachloroethylene	ND	1.0	J
109-99-9	Tetrahydrofuran	ND	1.0	J
108-88-3	Toluene	ND	1.0	J
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	J
79-01-6	Trichloroethylene	ND	1.0	J
75-69-4	Trichlorofluoromethane	ND	1.0	J
108-05-4	Vinyl Acetate	ND	1.0	J
75-01-4	Vinyl Chloride	ND	1.0	J
10061-01-5	c-1,3-dichloropropene	ND	1.0	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	J
10061-02-6	t-1,3-Dichloropropene	ND	1.0	J

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments: This sample was received out of holdtime. The sample was taken on 10/2 the holdtime expired 10/16, the lab received the sample 10/19.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	EQUP BLANK	Lab Sample ID:	AB34894
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	EQUP BLANK	Lab Sample ID:	AB34894
Date of Collection:	10/17/2012	Matrix	Blank
Date of Extraction:	10/22/12	Amount Prepared	5 mL
Date of Analysis:	10/22/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments:

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB34882

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	20	ND	19	95	67 - 129
1,1,1-Trichloroethane	20	ND	21	105	75 - 139
1,1,2,2-Tetrachloroethane	20	ND	20	100	50 - 142
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	ND	22	110	55 - 135
1,1,2-Trichloroethane	20	ND	21	105	62 - 142
1,1-Dichloroethylene	20	ND	20	100	80 - 138
1,1-Dichloropropene	20	ND	20	100	73 - 131
1,1-dichloroethane	20	ND	21	105	61 - 152
1,2,3-Trichlorobenzene	20	ND	20	100	49 - 143
1,2,3-Trichloropropane	20	ND	20	100	53 - 135
1,2,4-Trichlorobenzene	20	ND	19	95	63 - 131
1,2,4-Trimethylbenzene	20	ND	20	100	79 - 142
1,2-Dibromo-3-Chloropropane	20	ND	21	105	28 - 122
1,2-Dibromoethane	20	ND	21	105	53 - 139
1,2-Dichlorobenzene	20	ND	20	100	74 - 129
1,2-Dichloroethane	20	ND	20	100	61 - 142
1,2-Dichloropropane	20	ND	19	95	71 - 126
1,3,5-Trimethylbenzene	20	ND	20	100	77 - 140
1,3-Dichlorobenzene	20	ND	19	95	78 - 127
1,3-Dichloropropane	20	ND	20	100	63 - 130
1,4-Dichlorobenzene	20	ND	19	95	72 - 131
2,2-Dichloropropane	20	ND	21	105	50 - 139
2-Butanone (MEK)	20	ND	13	65	29 - 163
2-Chlorotoluene	20	ND	20	100	74 - 134
2-Hexanone	20	ND	15	75	36 - 141
2-Propanone (acetone)	20	ND	9.3	47	29 - 164
4-Chlorotoluene	20	ND	20	100	68 - 141
4-Methyl-2-Pentanone(MIBK)	20	ND	20	100	35 - 139
Acrylonitrile	20	ND	22	110	42 - 150
Benzene	20	ND	20	100	78 - 134
Bromobenzene	20	ND	19	95	76 - 126
Bromochloromethane	20	ND	21	105	62 - 140
Bromodichloromethane	20	ND	20	100	62 - 133
Bromoform	20	ND	21	105	31 - 133
Bromomethane	20	ND	20	100	58 - 148
Carbon Disulfide	20	ND	20	100	66 - 135
Carbon tetrachloride	20	ND	21	105	62 - 146
Chlorobenzene	20	ND	19	95	74 - 139
Chloroethane	20	ND	19	95	65 - 145
Chloroform	20	ND	20	100	60 - 144
Chloromethane	20	ND	19	95	58 - 134
Dibromochloromethane	20	ND	21	105	34 - 140
Dibromomethane	20	ND	20	100	67 - 125
Dichlorodifluoromethane	20	ND	19	95	30 - 132
Ethyl Ether	20	ND	20	100	58 - 145
Ethylbenzene	20	ND	20	100	73 - 143
Hexachlorobutadiene	20	ND	19	95	56 - 144
Isopropylbenzene	20	ND	20	100	73 - 139

M/P Xylene	40	ND	39	98	79 - 136
Methyl-t-Butyl Ether	20	ND	20	100	50 - 144
Methylene Chloride	20	ND	20	100	70 - 144
N-Butylbenzene	20	ND	20	100	68 - 143
N-Propylbenzene	20	ND	20	100	72 - 149
Naphthalene	20	ND	19	95	33 - 154
Ortho Xylene	20	ND	20	100	80 - 129
Para-Isopropyltoluene	20	ND	20	100	71 - 140
Sec-Butylbenzene	20	ND	20	100	75 - 148
Styrene	20	ND	20	100	61 - 148
Tert-Butylbenzene	20	ND	20	100	71 - 139
Tetrachloroethylene	20	ND	20	100	45 - 145
Tetrahydrofuran	20	ND	22	110	37 - 143
Toluene	20	ND	20	100	77 - 142
Trans-1,2-Dichloroethylene	20	ND	20	100	79 - 139
Trichloroethylene	20	ND	20	100	65 - 143
Trichlorofluoromethane	20	ND	21	105	58 - 161
Vinyl Acetate	20	ND	19	95	22 - 173
Vinyl Chloride	20	ND	20	100	68 - 139
c-1,3-dichloropropene	20	ND	21	105	51 - 144
cis-1,2-Dichloroethylene	20	ND	21	105	59 - 154
t-1,3-Dichloropropene	20	ND	21	105	47 - 145

Comments:

Sample ID: AB34882

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	20	100	5	40
1,1,1-Trichloroethane	20	20	100	5	16
1,1,2,2-Tetrachloroethane	20	20	100	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	22	110	0	40
1,1,2-Trichloroethane	20	20	100	5	40
1,1-Dichloroethylene	20	20	100	0	35
1,1-Dichloropropene	20	20	100	0	40
1,1-dichloroethane	20	21	105	0	40
1,2,3-Trichlorobenzene	20	19	95	5	40
1,2,3-Trichloropropane	20	20	100	0	40
1,2,4-Trichlorobenzene	20	20	100	5	40
1,2,4-Trimethylbenzene	20	20	100	0	40
1,2-Dibromo-3-Chloropropane	20	21	105	0	40
1,2-Dibromoethane	20	20	100	5	40
1,2-Dichlorobenzene	20	20	100	0	40
1,2-Dichloroethane	20	20	100	0	23
1,2-Dichloropropane	20	20	100	5	40
1,3,5-Trimethylbenzene	20	20	100	0	40
1,3-Dichlorobenzene	20	19	95	0	40
1,3-Dichloropropane	20	20	100	0	40
1,4-Dichlorobenzene	20	20	100	5	21
2,2-Dichloropropane	20	21	105	0	40
2-Butanone (MEK)	20	13	65	0	40
2-Chlorotoluene	20	20	100	0	40
2-Hexanone	20	15	75	0	40
2-Propanone (acetone)	20	9.6	48	3	40
4-Chlorotoluene	20	20	100	0	40
4-Methyl-2-Pentanone(MIBK)	20	20	100	0	40
Acrylonitrile	20	21	105	5	40
Benzene	20	20	100	0	14
Bromobenzene	20	20	100	5	40
Bromochloromethane	20	21	105	0	40
Bromodichloromethane	20	20	100	0	21
Bromoform	20	20	100	5	40
Bromomethane	20	19	95	5	40
Carbon Disulfide	20	20	100	0	40
Carbon tetrachloride	20	21	105	0	19
Chlorobenzene	20	20	100	5	40
Chloroethane	20	19	95	0	40
Chloroform	20	20	100	0	16
Chloromethane	20	19	95	0	40
Dibromochloromethane	20	21	105	0	36
Dibromomethane	20	19	95	5	40
Dichlorodifluoromethane	20	19	95	0	40
Ethyl Ether	20	20	100	0	40
Ethylbenzene	20	20	100	0	40
Hexachlorobutadiene	20	19	95	0	40
Isopropylbenzene	20	20	100	0	40
M/P Xylene	40	39	98	0	40
Methyl-t-Butyl Ether	20	20	100	0	40
Methylene Chloride	20	19	95	5	40
N-Butylbenzene	20	21	105	5	40
N-Propylbenzene	20	20	100	0	40

Naphthalene	20	19	95	0	40
Ortho Xylene	20	21	105	5	40
Para-Isopropyltoluene	20	21	105	5	40
Sec-Butylbenzene	20	21	105	5	40
Styrene	20	21	105	5	40
Tert-Butylbenzene	20	21	105	5	40
Tetrachloroethylene	20	20	100	0	40
Tetrahydrofuran	20	21	105	5	40
Toluene	20	20	100	0	40
Trans-1,2-Dichloroethylene	20	20	100	0	40
Trichloroethylene	20	20	100	0	22
Trichlorofluoromethane	20	21	105	0	40
Vinyl Acetate	20	19	95	0	40
Vinyl Chloride	20	21	105	5	19
c-1,3-dichloropropene	20	21	105	0	40
cis-1,2-Dichloroethylene	20	21	105	0	40
t-1,3-Dichloropropene	20	21	105	0	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34882

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	30
1,1,1-Trichloroethane	ND	ND	ND	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	30
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	30
1,1,2-Trichloroethane	ND	ND	ND	30
1,1-Dichloroethylene	ND	ND	ND	30
1,1-Dichloropropene	ND	ND	ND	30
1,1-dichloroethane	ND	ND	ND	30
1,2,3-Trichlorobenzene	ND	ND	ND	30
1,2,3-Trichloropropane	ND	ND	ND	30
1,2,4-Trichlorobenzene	ND	ND	ND	30
1,2,4-Trimethylbenzene	ND	ND	ND	30
1,2-Dibromo-3-Chloropropane	ND	ND	ND	30
1,2-Dibromoethane	ND	ND	ND	30
1,2-Dichlorobenzene	ND	ND	ND	30
1,2-Dichloroethane	ND	ND	ND	30
1,2-Dichloropropane	ND	ND	ND	30
1,3,5-Trimethylbenzene	ND	ND	ND	30
1,3-Dichlorobenzene	ND	ND	ND	30
1,3-Dichloropropane	ND	ND	ND	30
1,4-Dichlorobenzene	ND	ND	ND	30
2,2-Dichloropropane	ND	ND	ND	30
2-Butanone (MEK)	ND	ND	ND	30
2-Chlorotoluene	ND	ND	ND	30
2-Hexanone	ND	ND	ND	30
2-Propanone (acetone)	ND	ND	ND	30
4-Chlorotoluene	ND	ND	ND	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	30
Acrylonitrile	ND	ND	ND	30
Benzene	ND	ND	ND	30
Bromobenzene	ND	ND	ND	30
Bromochloromethane	ND	ND	ND	30
Bromodichloromethane	ND	ND	ND	30
Bromoform	ND	ND	ND	30
Bromomethane	ND	ND	ND	30
Carbon Disulfide	ND	ND	ND	30
Carbon tetrachloride	ND	ND	ND	30
Chlorobenzene	ND	ND	ND	30
Chloroethane	ND	ND	ND	30
Chloroform	ND	ND	ND	30
Chloromethane	ND	ND	ND	30
Dibromochloromethane	ND	ND	ND	30
Dibromomethane	ND	ND	ND	30
Dichlorodifluoromethane	ND	ND	ND	30
Ethyl Ether	ND	ND	ND	30
Ethylbenzene	ND	ND	ND	30
Hexachlorobutadiene	ND	ND	ND	30
Isopropylbenzene	ND	ND	ND	30
M/P Xylene	ND	ND	ND	30

Methyl-t-Butyl Ether	ND	ND	ND	30
Methylene Chloride	ND	ND	ND	30
N-Butylbenzene	ND	ND	ND	30
N-Propylbenzene	ND	ND	ND	30
Naphthalene	ND	ND	ND	30
Ortho Xylene	ND	ND	ND	30
Para-Isopropyltoluene	ND	ND	ND	30
Sec-Butylbenzene	ND	ND	ND	30
Styrene	ND	ND	ND	30
Tert-Butylbenzene	ND	ND	ND	30
Tetrachloroethylene	ND	ND	ND	30
Tetrahydrofuran	ND	ND	ND	30
Toluene	ND	ND	ND	30
Trans-1,2-Dichloroethylene	ND	ND	ND	30
Trichloroethylene	ND	ND	ND	30
Trichlorofluoromethane	ND	ND	ND	30
Vinyl Acetate	ND	ND	ND	30
Vinyl Chloride	ND	ND	ND	30
c-1,3-dichloropropene	ND	ND	ND	30
cis-1,2-Dichloroethylene	ND	ND	ND	30
t-1,3-Dichloropropene	ND	ND	ND	30

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	20	100	79 - 136
1,1,1-Trichloroethane	20	20	100	75 - 146
1,1,2,2-Tetrachloroethane	20	20	100	62 - 141
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21	105	56 - 130
1,1,2-Trichloroethane	20	20	100	75 - 138
1,1-Dichloroethylene	20	19	95	75 - 136
1,1-Dichloropropene	20	20	100	77 - 137
1,1-dichloroethane	20	20	100	76 - 142
1,2,3-Trichlorobenzene	20	19	95	64 - 143
1,2,3-Trichloropropane	20	18	90	66 - 133
1,2,4-Trichlorobenzene	20	19	95	80 - 131
1,2,4-Trimethylbenzene	20	20	100	74 - 155
1,2-Dibromo-3-Chloropropane	20	20	100	37 - 139
1,2-Dibromoethane	20	20	100	72 - 135
1,2-Dichlorobenzene	20	20	100	85 - 128
1,2-Dichloroethane	20	19	95	74 - 138
1,2-Dichloropropane	20	20	100	83 - 124
1,3,5-Trimethylbenzene	20	20	100	80 - 145
1,3-Dichlorobenzene	20	20	100	84 - 130
1,3-Dichloropropane	20	19	95	77 - 129
1,4-Dichlorobenzene	20	19	95	82 - 128
2,2-Dichloropropane	20	21	105	32 - 171
2-Butanone (MEK)	20	19	95	38 - 179
2-Chlorotoluene	20	19	95	78 - 134
2-Hexanone	20	21	105	45 - 158
2-Propanone (acetone)	20	19	95	14 - 209
4-Chlorotoluene	20	20	100	75 - 144
4-Methyl-2-Pentanone(MIBK)	20	20	100	40 - 144
Acrylonitrile	20	19	95	52 - 154
Benzene	20	20	100	83 - 130
Bromobenzene	20	20	100	85 - 126
Bromochloromethane	20	21	105	69 - 137
Bromodichloromethane	20	20	100	70 - 143
Bromoform	20	20	100	51 - 136
Bromomethane	20	20	100	65 - 140
Carbon Disulfide	20	20	100	68 - 140
Carbon tetrachloride	20	21	105	70 - 144
Chlorobenzene	20	20	100	84 - 131
Chloroethane	20	19	95	70 - 134
Chloroform	20	20	100	76 - 141
Chloromethane	20	18	90	63 - 123
Dibromochloromethane	20	20	100	39 - 154
Dibromomethane	20	20	100	79 - 124
Dichlorodifluoromethane	20	17	85	37 - 117
Ethyl Ether	20	18	90	67 - 140
Ethylbenzene	20	20	100	81 - 133
Hexachlorobutadiene	20	20	100	68 - 146
Isopropylbenzene	20	20	100	78 - 137
M/P Xylene	40	40	100	68 - 155
Methyl-t-Butyl Ether	20	20	100	63 - 144
Methylene Chloride	20	19	95	75 - 140
N-Butylbenzene	20	20	100	69 - 147

N-Propylbenzene	20	20	100	76 - 138
Naphthalene	20	19	95	53 - 155
Ortho Xylene	20	20	100	85 - 135
Para-Isopropyltoluene	20	21	105	77 - 141
Sec-Butylbenzene	20	20	100	80 - 141
Styrene	20	21	105	82 - 139
Tert-Butylbenzene	20	21	105	75 - 144
Tetrachloroethylene	20	20	100	32 - 173
Tetrahydrofuran	20	18	90	47 - 149
Toluene	20	20	100	85 - 134
Trans-1,2-Dichloroethylene	20	20	100	80 - 138
Trichloroethylene	20	20	100	76 - 135
Trichlorofluoromethane	20	19	95	60 - 149
Vinyl Acetate	20	18	90	38 - 187
Vinyl Chloride	20	19	95	66 - 133
c-1,3-dichloropropene	20	21	105	68 - 149
cis-1,2-Dichloroethylene	20	20	100	76 - 143
t-1,3-Dichloropropene	20	22	110	62 - 160

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	100	0	50
1,1,1-Trichloroethane	20	100	0	50
1,1,2,2-Tetrachloroethane	20	100	0	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	100	5	50
1,1,2-Trichloroethane	20	100	0	50
1,1-Dichloroethylene	19	95	0	52
1,1-Dichloropropene	20	100	0	50
1,1-dichloroethane	20	100	0	50
1,2,3-Trichlorobenzene	20	100	5	50
1,2,3-Trichloropropane	19	95	5	50
1,2,4-Trichlorobenzene	19	95	0	50
1,2,4-Trimethylbenzene	20	100	0	50
1,2-Dibromo-3-Chloropropane	20	100	0	50
1,2-Dibromoethane	20	100	0	50
1,2-Dichlorobenzene	20	100	0	50
1,2-Dichloroethane	20	100	5	50
1,2-Dichloropropane	19	95	5	50
1,3,5-Trimethylbenzene	20	100	0	50
1,3-Dichlorobenzene	20	100	0	50
1,3-Dichloropropane	20	100	5	50
1,4-Dichlorobenzene	19	95	0	50
2,2-Dichloropropane	21	105	0	50
2-Butanone (MEK)	20	100	5	50
2-Chlorotoluene	19	95	0	50
2-Hexanone	21	105	0	50
2-Propanone (acetone)	19	95	0	50
4-Chlorotoluene	19	95	5	50
4-Methyl-2-Pentanone(MIBK)	20	100	0	50
Acrylonitrile	20	100	5	50
Benzene	20	100	0	50
Bromobenzene	20	100	0	50
Bromochloromethane	21	105	0	50
Bromodichloromethane	20	100	0	50
Bromoform	21	105	5	50
Bromomethane	19	95	5	50
Carbon Disulfide	20	100	0	50
Carbon tetrachloride	20	100	5	50
Chlorobenzene	20	100	0	34
Chloroethane	19	95	0	50
Chloroform	20	100	0	50
Chloromethane	18	90	0	50
Dibromochloromethane	21	105	5	50
Dibromomethane	20	100	0	50
Dichlorodifluoromethane	17	85	0	50
Ethyl Ether	19	95	5	50
Ethylbenzene	20	100	0	50
Hexachlorobutadiene	19	95	5	50
Isopropylbenzene	20	100	0	50
M/P Xylene	40	100	0	50
Methyl-t-Butyl Ether	20	100	0	50
Methylene Chloride	19	95	0	50
N-Butylbenzene	20	100	0	50
N-Propylbenzene	20	100	0	50
Naphthalene	18	90	5	50
Ortho Xylene	20	100	0	50

Para-Isopropyltoluene	21	105	0	50
Sec-Butylbenzene	20	100	0	50
Styrene	21	105	0	50
Tert-Butylbenzene	20	100	5	50
Tetrachloroethylene	20	100	0	50
Tetrahydrofuran	20	100	11	50
Toluene	20	100	0	50
Trans-1,2-Dichloroethylene	20	100	0	50
Trichloroethylene	19	95	5	27
Trichlorofluoromethane	19	95	0	50
Vinyl Acetate	18	90	0	50
Vinyl Chloride	19	95	0	50
c-1,3-dichloropropene	21	105	0	50
cis-1,2-Dichloroethylene	21	105	5	50
t-1,3-Dichloropropene	21	105	5	50

Samples in Batch: AB34882, AB34883, AB34884, AB34885, AB34886, AB34887, AB34888, AB34889, AB34890, AB34891, AB34892, AB34893, AB34894

PN: 12100033

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
	10/18/12 17:20		10/18/12 17:20
	10/19/12 12:40		10/19/12 12:40
	10/19/12		10/19/12 14:15

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-231
SGD Complete? Yes
Site Specific QA/QC? Yes - MHK_PZ-13

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	Dissolved SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
✓	MHK_PZ-05	10/17/12	15:03	GW	X					2	–	
✓	MHK_PZ-07	10/18/12	10:52	GW	X	X				3	–	
✓	MHK_PZ-08	10/18/12	12:35	GW	X	X				3	–	
✓	MHK_PZ-09	10/18/12	14:12	GW	X	X				3	–	
✓	MHK_PZ-10	10/18/12	12:17	GW	X	X				3	–	
✓	MHK_PZ-11	10/17/12	15:20	GW	X					2	–	
✓	MHK_PZ-12	10/18/12	13:48	GW	X	X				3	–	
✓	MHK_PZ-13	10/18/12	11:29	GW	X					2	–	
✓	MHK_PZ-15	10/18/12	9:25	GW	X	X				3	–	
NO SAMPLE	TRIP BLANK	10/02/12	7:15	AQ	X					2	–	Trip blank prepared by EAI.
NO SAMPLE	EQUIP BLANK	10/17/12	15:00	AQ	X					2	–	

PN: 12100033

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

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New England Regional Laboratory
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Relinquished By:	Date / Time	Received By:	Date / Time
	10/18/12 17:20		10/18/12 17:20
	10/19/12 12:40		10/19/12 12:40
	10/19/12		10/19/12 14:15

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-221
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
✓	MHK_GZ-11	10/17/12	16:14	GW	X	X				6	–	
✓	MHK_SH-13	10/18/12	11:53	GW	X	X				6	–	
✓	TRIP BLANK	10/02/12	7:15	GW	X					2	–	Trip blank prepared by EAI.

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

November 02, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100037
Project: Mohawk Tannery - Nashua, NH
Analysis: Bulk Asbestos Analysis by PLM
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-INGASBSD2.

Analytical Method: Polarized Light Microscope (PLM) with Dispersion Staining.
All quantities are estimated volume percent.

Date Samples Received by the Laboratory: 10/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at .

Sincerely,

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-107_0-.5	Lab Sample ID:	AB34953
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine brown soil with small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-110_0-.5	Lab Sample ID:	AB34955
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine brown soil with small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-116_0-.5	Lab Sample ID:	AB34957
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine brown soil with mulch and small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-122_0-.5	Lab Sample ID:	AB34959
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown, sandy soil with small roots.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-137_0-.5	Lab Sample ID:	AB34960
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**1**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown soil, mixed with mulch.

Client Sample ID:	MHK_SS-140_0-.5	Lab Sample ID:	AB34963
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine, brown, mulchy soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-145_0-.5	Lab Sample ID:	AB34965
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown soil and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-151_0-.5	Lab Sample ID:	AB34966
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown, sandy soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-152_0-.5	Lab Sample ID:	AB34967
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown, sandy soil.

No visible fiber bundles.

Client Sample ID:	MHK_SS-153_0-.5	Lab Sample ID:	AB34968
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine black soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-154_0-.5	Lab Sample ID:	AB34969
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine black soil.

No visible fiber bundles.

Client Sample ID:	MHK_SS-155_0-.5	Lab Sample ID:	AB34970
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine, dark brown soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	OW-201	Lab Sample ID:	AB34971
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Light brown sandy soil with fine mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-139_0-.5	Lab Sample ID:	AB34972
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**1**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine brown soil.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-141_0-.5	Lab Sample ID:	AB34973
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Gray/black, fine soil.

No visible fiber bundles.

Client Sample ID:	MHK_SS-143_0-.5	Lab Sample ID:	AB34974
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine brown sand with mulch.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-147_0-.5	Lab Sample ID:	AB34975
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine black soil with mulch.

No visible fiber bundles.

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	11/2/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: RTI standard #16 used to verify alignment of PLM.

PN: 12100037

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly M Dubois	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10-23-12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-107_0-.5	10/22/12	9:22	SO	X	X	X			3		
	MHK_SS-107_1-2	10/22/12	9:38	SO	X	X				2		
	MHK_SS-110_0-.5	10/22/12	9:55	SO	X	X	X			3		
	MHK_SS-110_1-2	10/22/12	10:05	SO	X	X				2		
	MHK_SS-116_0-.5	10/22/12	10:18	SO	X	X	X			3		
	MHK_SS-116_1-2	10/22/12	10:28	SO	X	X				2		
	MHK_SS-122_0-.5	10/22/12	11:28	SO	X	X	X			3		
	MHK_SS-122_1-2	10/22/12	11:38	SO	X	X				2		
	MHK_SS-137_0-.5	10/22/12	11:50	SO	X	X	X			3		
	MHK_SS-137_1-2	10/22/12	11:58	SO	X	X				2		

PN: 12100037

Shipping Group: 1

Chain-of-Custody

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USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1505
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-138_1-2	10/23/12	12:24	SO	X	X				2		
	MHK_SS-140_0-.5	10/23/12	12:39	SO	X	X	X			3		
	MHK_SS-140_1-2	10/23/12	12:52	SO	X	X				2		
	MHK_SS-145_0-.5	10/23/12	9:04	SO	X	X	X			3		
	MHK_SS-151_0-.5	10/23/12	10:09	SO	X	X	X			3		
	MHK_SS-152_0-.5	10/23/12	10:20	SO	X	X	X			3		
	MHK_SS-153_0-.5	10/23/12	10:37	SO	X	X	X			3		
	MHK_SS-154_0-.5	10/23/12	11:16	SO	X	X	X			3		
	MHK_SS-155_0-.5	10/23/12	11:30	SO	X	X	X			3		
	OW-201	10/23/12	12:39	SO	X	X	X			3		
	EQUIP BLANK	10/23/12	13:30	AQ	X	X				6		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 31, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100037
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in Soils Medium Level
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAS3.

Samples were prepared using pressurized fluid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this analysis is based on US EPA SW-846 methods 3545A and 8270C and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-107_0-.5	Lab Sample ID:	AB34953
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	22.842 grams	Extract Dilution:	1
Wet Weight Extracted:	26.453 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	440	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

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Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	22.842 grams	Extract Dilution:	1
Wet Weight Extracted:	26.453 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-107_0-.5	Lab Sample ID:	AB34953
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	22.842 grams	Extract Dilution:	1
Wet Weight Extracted:	26.453 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	77	22 - 97
Phenol-d6 (SS2)	75	23 - 99
Nitrobenzene-d5 (SS3)	53	20 - 98
2-Fluorobiphenyl (SS4)	57	23 - 104
2,4,6-Tribromophenol (SS5)	64	12 - 127
p-Terphenyl-d14 (SS6)	67	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	100%
Dry Weight Extracted:	30.119 grams	Extract Dilution:	1
Wet Weight Extracted:	30.149 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	83	
120-82-1	1,2,4-Trichlorobenzene	ND	83	
95-50-1	1,2-Dichlorobenzene	ND	83	
541-73-1	1,3-Dichlorobenzene	ND	83	
99-65-0	1,3-Dinitrobenzene	ND	83	
106-46-7	1,4-Dichlorobenzene	ND	83	
130-15-4	1,4-Naphthoquinone	ND	83	
90-12-0	1-Methylnaphthalene	ND	83	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	83	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	83	
95-95-4	2,4,5-Trichlorophenol	ND	83	
88-06-2	2,4,6-Trichlorophenol	ND	83	
120-83-2	2,4-Dichlorophenol	ND	83	
51-28-5	2,4-Dinitrophenol	ND	170	
121-14-2	2,4-Dinitrotoluene	ND	83	
105-67-9	2,4-dimethylphenol	ND	83	
87-65-0	2,6-Dichlorophenol	ND	83	
606-20-2	2,6-Dinitrotoluene	ND	83	
91-58-7	2-Chloronaphthalene	ND	83	
95-57-8	2-Chlorophenol	ND	83	
91-57-6	2-Methylnaphthalene	ND	83	
95-48-7	2-Methylphenol	ND	83	
88-74-4	2-Nitroaniline	ND	83	
88-75-5	2-Nitrophenol	ND	83	
108-39-4/106-44-	3&4-Methylphenol	ND	170	
91-94-1	3,3'-Dichlorobenzidine	ND	83	
56-49-5	3-Methylcholanthrene	ND	83	
99-09-2	3-Nitroaniline	ND	83	
534-52-1	4,6-Dinitro-2-methylphenol	ND	170	
101-55-3	4-Bromophenyl-phenylether	ND	83	
59-50-7	4-Chloro-3-methylphenol	ND	83	
106-47-8	4-Chloroaniline	ND	83	
7005-72-3	4-Chlorophenyl-phenylether	ND	83	
100-01-6	4-Nitroaniline	ND	83	
100-02-7	4-Nitrophenol	ND	83	
56-57-5	4-nitroquinoline-1-oxide	ND	332	
83-32-9	Acenaphthene	ND	83	
208-96-8	Acenaphthylene	ND	83	
98-86-2	Acetophenone	ND	83	
62-53-3	Aniline	ND	83	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	100%
Dry Weight Extracted:	30.119 grams	Extract Dilution:	1
Wet Weight Extracted:	30.149 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	83	
140-57-8	Aramite	ND	83	
103-33-3	Azobenzene	ND	83	
92-87-5	Benzidine	ND	83	
56-55-3	Benzo(a)anthracene	ND	83	
50-32-8	Benzo(a)pyrene	ND	83	
205-99-2	Benzo(b)fluoranthene	ND	83	
191-24-2	Benzo(g,h,i)perylene	ND	83	
207-08-9	Benzo(k)fluoranthene	ND	83	
65-85-0	Benzoic acid	ND	170	
100-51-6	Benzyl alcohol	ND	83	
111-44-4	Bis(2-Chloroethyl)ether	ND	83	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	83	
85-68-7	Butylbenzylphthalate	ND	83	
86-74-8	Carbazole	ND	83	
510-15-6	Chlorobenzilate	ND	83	
218-01-9	Chrysene	ND	83	
84-74-2	Di-n-butylphthalate	ND	83	
117-84-0	Di-n-octyl phthalate	ND	83	
53-70-3	Dibenz(a,h)anthracene	ND	83	
132-64-9	Dibenzofuran	ND	83	
84-66-2	Diethylphthalate	ND	83	
131-11-3	Dimethyl phthalate	ND	83	
88-85-7	Dinoseb	ND	83	
62-50-0	Ethyl methanesulfonate	ND	83	
206-44-0	Fluoranthene	ND	83	
86-73-7	Fluorene	ND	83	
118-74-1	Hexachlorobenzene	ND	83	
87-68-3	Hexachlorobutadiene	ND	83	
77-47-4	Hexachlorocyclopentadiene	ND	83	
67-72-1	Hexachloroethane	ND	83	
1888-71-7	Hexachloropropene	ND	83	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	83	
465-73-6	Isodrin	ND	83	
78-59-1	Isophorone	ND	83	
120-58-1	Isosafrole	ND	83	
143-50-0	Kepone	ND	83	
66-27-3	Methyl methanesulfonate	ND	83	
86-30-6	N-Nitrosodiphenylamine	ND	83	
621-64-7	N-nitroso-di-n-propylamine	ND	83	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	100%
Dry Weight Extracted:	30.119 grams	Extract Dilution:	1
Wet Weight Extracted:	30.149 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	83	
91-20-3	Naphthalene	ND	83	
98-95-3	Nitrobenzene	ND	83	
608-93-5	Pentachlorobenzene	ND	83	
82-68-8	Pentachloronitrobenzene	ND	83	
87-86-5	Pentachlorophenol	ND	83	
62-44-2	Phenacetin	ND	83	
85-01-8	Phenanthrene	ND	83	
108-95-2	Phenol	ND	83	
129-00-0	Pyrene	ND	83	
110-86-1	Pyridine	ND	83	
94-59-7	Safrole	ND	83	
111-91-1	bis(-2-Chloroethoxy)methane	ND	83	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	78	22 - 97
Phenol-d6 (SS2)	76	23 - 99
Nitrobenzene-d5 (SS3)	66	20 - 98
2-Fluorobiphenyl (SS4)	73	23 - 104
2,4,6-Tribromophenol (SS5)	68	12 - 127
p-Terphenyl-d14 (SS6)	86	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-107_1-2	Lab Sample ID:	AB34954
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	22.501 grams	Extract Dilution:	1
Wet Weight Extracted:	25.910 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	440	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-107_1-2	Lab Sample ID:	AB34954
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Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	22.501 grams	Extract Dilution:	1
Wet Weight Extracted:	25.910 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-107_1-2	Lab Sample ID:	AB34954
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	22.501 grams	Extract Dilution:	1
Wet Weight Extracted:	25.910 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	83	22 - 97
Phenol-d6 (SS2)	83	23 - 99
Nitrobenzene-d5 (SS3)	50	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	60	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-110_0-.5	Lab Sample ID:	AB34955
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	23.299 grams	Extract Dilution:	1
Wet Weight Extracted:	26.941 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-110_0-.5	Lab Sample ID:	AB34955
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	23.299 grams	Extract Dilution:	1
Wet Weight Extracted:	26.941 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-110_0-.5	Lab Sample ID:	AB34955
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	23.299 grams	Extract Dilution:	1
Wet Weight Extracted:	26.941 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	42	20 - 98
2-Fluorobiphenyl (SS4)	49	23 - 104
2,4,6-Tribromophenol (SS5)	48	12 - 127
p-Terphenyl-d14 (SS6)	50	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-110_1-2	Lab Sample ID:	AB34956
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	90%
Dry Weight Extracted:	23.512 grams	Extract Dilution:	1
Wet Weight Extracted:	26.186 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-110_1-2	Lab Sample ID:	AB34956
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	90%
Dry Weight Extracted:	23.512 grams	Extract Dilution:	1
Wet Weight Extracted:	26.186 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-110_1-2	Lab Sample ID:	AB34956
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	90%
Dry Weight Extracted:	23.512 grams	Extract Dilution:	1
Wet Weight Extracted:	26.186 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	78	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	73	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-116_0-.5	Lab Sample ID:	AB34957
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	83%
Dry Weight Extracted:	20.883 grams	Extract Dilution:	1
Wet Weight Extracted:	25.276 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
99-65-0	1,3-Dinitrobenzene	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
130-15-4	1,4-Naphthoquinone	ND	120	
90-12-0	1-Methylnaphthalene	ND	120	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	120	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	120	
95-95-4	2,4,5-Trichlorophenol	ND	120	
88-06-2	2,4,6-Trichlorophenol	ND	120	
120-83-2	2,4-Dichlorophenol	ND	120	
51-28-5	2,4-Dinitrophenol	ND	240	
121-14-2	2,4-Dinitrotoluene	ND	120	
105-67-9	2,4-dimethylphenol	ND	120	
87-65-0	2,6-Dichlorophenol	ND	120	
606-20-2	2,6-Dinitrotoluene	ND	120	
91-58-7	2-Chloronaphthalene	ND	120	
95-57-8	2-Chlorophenol	ND	120	
91-57-6	2-Methylnaphthalene	ND	120	
95-48-7	2-Methylphenol	ND	120	
88-74-4	2-Nitroaniline	ND	120	
88-75-5	2-Nitrophenol	ND	120	
108-39-4/106-44-	3&4-Methylphenol	ND	240	
91-94-1	3,3'-Dichlorobenzidine	ND	120	
56-49-5	3-Methylcholanthrene	ND	120	
99-09-2	3-Nitroaniline	ND	120	
534-52-1	4,6-Dinitro-2-methylphenol	ND	240	
101-55-3	4-Bromophenyl-phenylether	ND	120	
59-50-7	4-Chloro-3-methylphenol	ND	120	
106-47-8	4-Chloroaniline	ND	120	
7005-72-3	4-Chlorophenyl-phenylether	ND	120	
100-01-6	4-Nitroaniline	ND	120	
100-02-7	4-Nitrophenol	ND	120	
56-57-5	4-nitroquinoline-1-oxide	ND	480	
83-32-9	Acenaphthene	ND	120	
208-96-8	Acenaphthylene	ND	120	
98-86-2	Acetophenone	ND	120	
62-53-3	Aniline	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-116_0-.5	Lab Sample ID:	AB34957
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	83%
Dry Weight Extracted:	20.883 grams	Extract Dilution:	1
Wet Weight Extracted:	25.276 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	120	
140-57-8	Aramite	ND	120	
103-33-3	Azobenzene	ND	120	
92-87-5	Benzidine	ND	120	
56-55-3	Benzo(a)anthracene	ND	120	
50-32-8	Benzo(a)pyrene	ND	120	
205-99-2	Benzo(b)fluoranthene	ND	120	
191-24-2	Benzo(g,h,i)perylene	ND	120	
207-08-9	Benzo(k)fluoranthene	ND	120	
65-85-0	Benzoic acid	ND	240	
100-51-6	Benzyl alcohol	ND	120	
111-44-4	Bis(2-Chloroethyl)ether	ND	120	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	120	
85-68-7	Butylbenzylphthalate	ND	120	
86-74-8	Carbazole	ND	120	
510-15-6	Chlorobenzilate	ND	120	
218-01-9	Chrysene	ND	120	
84-74-2	Di-n-butylphthalate	ND	120	
117-84-0	Di-n-octyl phthalate	ND	120	
53-70-3	Dibenz(a,h)anthracene	ND	120	
132-64-9	Dibenzofuran	ND	120	
84-66-2	Diethylphthalate	ND	120	
131-11-3	Dimethyl phthalate	ND	120	
88-85-7	Dinoseb	ND	240	
62-50-0	Ethyl methanesulfonate	ND	120	
206-44-0	Fluoranthene	ND	120	
86-73-7	Fluorene	ND	120	
118-74-1	Hexachlorobenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
77-47-4	Hexachlorocyclopentadiene	ND	120	
67-72-1	Hexachloroethane	ND	120	
1888-71-7	Hexachloropropene	ND	120	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	
465-73-6	Isodrin	ND	120	
78-59-1	Isophorone	ND	120	
120-58-1	Isosafrole	ND	120	
143-50-0	Kepone	ND	120	
66-27-3	Methyl methanesulfonate	ND	120	
86-30-6	N-Nitrosodiphenylamine	ND	120	
621-64-7	N-nitroso-di-n-propylamine	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-116_0-.5	Lab Sample ID:	AB34957
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	83%
Dry Weight Extracted:	20.883 grams	Extract Dilution:	1
Wet Weight Extracted:	25.276 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	120	
91-20-3	Naphthalene	ND	120	
98-95-3	Nitrobenzene	ND	120	
608-93-5	Pentachlorobenzene	ND	120	
82-68-8	Pentachloronitrobenzene	ND	120	
87-86-5	Pentachlorophenol	ND	120	
62-44-2	Phenacetin	ND	120	
85-01-8	Phenanthrene	ND	120	
108-95-2	Phenol	ND	120	
129-00-0	Pyrene	ND	120	
110-86-1	Pyridine	ND	120	
94-59-7	Safrole	ND	120	
111-91-1	bis(-2-Chloroethoxy)methane	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	65	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-116_1-2	Lab Sample ID:	AB34958
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	81%
Dry Weight Extracted:	21.407 grams	Extract Dilution:	1
Wet Weight Extracted:	26.323 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
99-65-0	1,3-Dinitrobenzene	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
130-15-4	1,4-Naphthoquinone	ND	120	
90-12-0	1-Methylnaphthalene	ND	120	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	120	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	120	
95-95-4	2,4,5-Trichlorophenol	ND	120	
88-06-2	2,4,6-Trichlorophenol	ND	120	
120-83-2	2,4-Dichlorophenol	ND	120	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	120	
105-67-9	2,4-dimethylphenol	ND	120	
87-65-0	2,6-Dichlorophenol	ND	120	
606-20-2	2,6-Dinitrotoluene	ND	120	
91-58-7	2-Chloronaphthalene	ND	120	
95-57-8	2-Chlorophenol	ND	120	
91-57-6	2-Methylnaphthalene	ND	120	
95-48-7	2-Methylphenol	ND	120	
88-74-4	2-Nitroaniline	ND	120	
88-75-5	2-Nitrophenol	ND	120	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	120	
56-49-5	3-Methylcholanthrene	ND	120	
99-09-2	3-Nitroaniline	ND	120	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	120	
59-50-7	4-Chloro-3-methylphenol	ND	120	
106-47-8	4-Chloroaniline	ND	120	
7005-72-3	4-Chlorophenyl-phenylether	ND	120	
100-01-6	4-Nitroaniline	ND	120	
100-02-7	4-Nitrophenol	ND	120	
56-57-5	4-nitroquinoline-1-oxide	ND	470	
83-32-9	Acenaphthene	ND	120	
208-96-8	Acenaphthylene	ND	120	
98-86-2	Acetophenone	ND	120	
62-53-3	Aniline	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-116_1-2	Lab Sample ID:	AB34958
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	81%
Dry Weight Extracted:	21.407 grams	Extract Dilution:	1
Wet Weight Extracted:	26.323 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	120	
140-57-8	Aramite	ND	120	
103-33-3	Azobenzene	ND	120	
92-87-5	Benzidine	ND	120	
56-55-3	Benzo(a)anthracene	ND	120	
50-32-8	Benzo(a)pyrene	ND	120	
205-99-2	Benzo(b)fluoranthene	ND	120	
191-24-2	Benzo(g,h,i)perylene	ND	120	
207-08-9	Benzo(k)fluoranthene	ND	120	
65-85-0	Benzoic acid	ND	230	
100-51-6	Benzyl alcohol	ND	120	
111-44-4	Bis(2-Chloroethyl)ether	ND	120	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	120	
85-68-7	Butylbenzylphthalate	ND	120	
86-74-8	Carbazole	ND	120	
510-15-6	Chlorobenzilate	ND	120	
218-01-9	Chrysene	ND	120	
84-74-2	Di-n-butylphthalate	ND	120	
117-84-0	Di-n-octyl phthalate	ND	120	
53-70-3	Dibenz(a,h)anthracene	ND	120	
132-64-9	Dibenzofuran	ND	120	
84-66-2	Diethylphthalate	ND	120	
131-11-3	Dimethyl phthalate	ND	120	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	120	
206-44-0	Fluoranthene	ND	120	
86-73-7	Fluorene	ND	120	
118-74-1	Hexachlorobenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
77-47-4	Hexachlorocyclopentadiene	ND	120	
67-72-1	Hexachloroethane	ND	120	
1888-71-7	Hexachloropropene	ND	120	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	
465-73-6	Isodrin	ND	120	
78-59-1	Isophorone	ND	120	
120-58-1	Isosafrole	ND	120	
143-50-0	Kepone	ND	120	
66-27-3	Methyl methanesulfonate	ND	120	
86-30-6	N-Nitrosodiphenylamine	ND	120	
621-64-7	N-nitroso-di-n-propylamine	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-116_1-2	Lab Sample ID:	AB34958
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	81%
Dry Weight Extracted:	21.407 grams	Extract Dilution:	1
Wet Weight Extracted:	26.323 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	120	
91-20-3	Naphthalene	ND	120	
98-95-3	Nitrobenzene	ND	120	
608-93-5	Pentachlorobenzene	ND	120	
82-68-8	Pentachloronitrobenzene	ND	120	
87-86-5	Pentachlorophenol	ND	120	
62-44-2	Phenacetin	ND	120	
85-01-8	Phenanthrene	ND	120	
108-95-2	Phenol	ND	120	
129-00-0	Pyrene	ND	120	
110-86-1	Pyridine	ND	120	
94-59-7	Safrole	ND	120	
111-91-1	bis(-2-Chloroethoxy)methane	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-122_0-.5	Lab Sample ID:	AB34959
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	85%
Dry Weight Extracted:	21.286 grams	Extract Dilution:	1
Wet Weight Extracted:	25.002 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
99-65-0	1,3-Dinitrobenzene	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
130-15-4	1,4-Naphthoquinone	ND	120	
90-12-0	1-Methylnaphthalene	ND	120	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	120	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	120	
95-95-4	2,4,5-Trichlorophenol	ND	120	
88-06-2	2,4,6-Trichlorophenol	ND	120	
120-83-2	2,4-Dichlorophenol	ND	120	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	120	
105-67-9	2,4-dimethylphenol	ND	120	
87-65-0	2,6-Dichlorophenol	ND	120	
606-20-2	2,6-Dinitrotoluene	ND	120	
91-58-7	2-Chloronaphthalene	ND	120	
95-57-8	2-Chlorophenol	ND	120	
91-57-6	2-Methylnaphthalene	ND	120	
95-48-7	2-Methylphenol	ND	120	
88-74-4	2-Nitroaniline	ND	120	
88-75-5	2-Nitrophenol	ND	120	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	120	
56-49-5	3-Methylcholanthrene	ND	120	
99-09-2	3-Nitroaniline	ND	120	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	120	
59-50-7	4-Chloro-3-methylphenol	ND	120	
106-47-8	4-Chloroaniline	ND	120	
7005-72-3	4-Chlorophenyl-phenylether	ND	120	
100-01-6	4-Nitroaniline	ND	120	
100-02-7	4-Nitrophenol	ND	120	
56-57-5	4-nitroquinoline-1-oxide	ND	470	
83-32-9	Acenaphthene	ND	120	
208-96-8	Acenaphthylene	ND	120	
98-86-2	Acetophenone	ND	120	
62-53-3	Aniline	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-122_0-.5	Lab Sample ID:	AB34959
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	85%
Dry Weight Extracted:	21.286 grams	Extract Dilution:	1
Wet Weight Extracted:	25.002 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	120	
140-57-8	Aramite	ND	120	
103-33-3	Azobenzene	ND	120	
92-87-5	Benzidine	ND	120	
56-55-3	Benzo(a)anthracene	ND	120	
50-32-8	Benzo(a)pyrene	ND	120	
205-99-2	Benzo(b)fluoranthene	ND	120	
191-24-2	Benzo(g,h,i)perylene	ND	120	
207-08-9	Benzo(k)fluoranthene	ND	120	
65-85-0	Benzoic acid	ND	230	
100-51-6	Benzyl alcohol	ND	120	
111-44-4	Bis(2-Chloroethyl)ether	ND	120	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	120	
85-68-7	Butylbenzylphthalate	ND	120	
86-74-8	Carbazole	ND	120	
510-15-6	Chlorobenzilate	ND	120	
218-01-9	Chrysene	ND	120	
84-74-2	Di-n-butylphthalate	ND	120	
117-84-0	Di-n-octyl phthalate	ND	120	
53-70-3	Dibenz(a,h)anthracene	ND	120	
132-64-9	Dibenzofuran	ND	120	
84-66-2	Diethylphthalate	ND	120	
131-11-3	Dimethyl phthalate	ND	120	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	120	
206-44-0	Fluoranthene	ND	120	
86-73-7	Fluorene	ND	120	
118-74-1	Hexachlorobenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
77-47-4	Hexachlorocyclopentadiene	ND	120	
67-72-1	Hexachloroethane	ND	120	
1888-71-7	Hexachloropropene	ND	120	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	
465-73-6	Isodrin	ND	120	
78-59-1	Isophorone	ND	120	
120-58-1	Isosafrole	ND	120	
143-50-0	Kepone	ND	120	
66-27-3	Methyl methanesulfonate	ND	120	
86-30-6	N-Nitrosodiphenylamine	ND	120	
621-64-7	N-nitroso-di-n-propylamine	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-122_0-.5	Lab Sample ID:	AB34959
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	85%
Dry Weight Extracted:	21.286 grams	Extract Dilution:	1
Wet Weight Extracted:	25.002 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	120	
91-20-3	Naphthalene	ND	120	
98-95-3	Nitrobenzene	ND	120	
608-93-5	Pentachlorobenzene	ND	120	
82-68-8	Pentachloronitrobenzene	ND	120	
87-86-5	Pentachlorophenol	ND	120	
62-44-2	Phenacetin	ND	120	
85-01-8	Phenanthrene	ND	120	
108-95-2	Phenol	ND	120	
129-00-0	Pyrene	ND	120	
110-86-1	Pyridine	ND	120	
94-59-7	Safrole	ND	120	
111-91-1	bis(-2-Chloroethoxy)methane	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	53	22 - 97
Phenol-d6 (SS2)	55	23 - 99
Nitrobenzene-d5 (SS3)	47	20 - 98
2-Fluorobiphenyl (SS4)	55	23 - 104
2,4,6-Tribromophenol (SS5)	53	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-137_0-.5	Lab Sample ID:	AB34960
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	85%
Dry Weight Extracted:	21.859 grams	Extract Dilution:	1
Wet Weight Extracted:	25.699 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	460	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-137_0-.5	Lab Sample ID:	AB34960
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	85%
Dry Weight Extracted:	21.859 grams	Extract Dilution:	1
Wet Weight Extracted:	25.699 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	**130**	110	
50-32-8	Benzo(a)pyrene	**150**	110	
205-99-2	Benzo(b)fluoranthene	**160**	110	
191-24-2	Benzo(g,h,i)perylene	**130**	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	230	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	**180**	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**200**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-137_0-.5	Lab Sample ID:	AB34960
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	85%
Dry Weight Extracted:	21.859 grams	Extract Dilution:	1
Wet Weight Extracted:	25.699 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	**200**	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**280**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	55	22 - 97
Phenol-d6 (SS2)	63	23 - 99
Nitrobenzene-d5 (SS3)	50	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	60	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-137_1-2	Lab Sample ID:	AB34961
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	92%
Dry Weight Extracted:	24.298 grams	Extract Dilution:	1
Wet Weight Extracted:	26.269 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	100	
541-73-1	1,3-Dichlorobenzene	ND	100	
99-65-0	1,3-Dinitrobenzene	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	100	
130-15-4	1,4-Naphthoquinone	ND	100	
90-12-0	1-Methylnaphthalene	ND	100	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	100	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	100	
95-95-4	2,4,5-Trichlorophenol	ND	100	
88-06-2	2,4,6-Trichlorophenol	ND	100	
120-83-2	2,4-Dichlorophenol	ND	100	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	100	
105-67-9	2,4-dimethylphenol	ND	100	
87-65-0	2,6-Dichlorophenol	ND	100	
606-20-2	2,6-Dinitrotoluene	ND	100	
91-58-7	2-Chloronaphthalene	ND	100	
95-57-8	2-Chlorophenol	ND	100	
91-57-6	2-Methylnaphthalene	ND	100	
95-48-7	2-Methylphenol	ND	100	
88-74-4	2-Nitroaniline	ND	100	
88-75-5	2-Nitrophenol	ND	100	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	100	
56-49-5	3-Methylcholanthrene	ND	100	
99-09-2	3-Nitroaniline	ND	100	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	100	
59-50-7	4-Chloro-3-methylphenol	ND	100	
106-47-8	4-Chloroaniline	ND	100	
7005-72-3	4-Chlorophenyl-phenylether	ND	100	
100-01-6	4-Nitroaniline	ND	100	
100-02-7	4-Nitrophenol	ND	100	
56-57-5	4-nitroquinoline-1-oxide	ND	410	
83-32-9	Acenaphthene	ND	100	
208-96-8	Acenaphthylene	**180**	100	
98-86-2	Acetophenone	ND	100	
62-53-3	Aniline	ND	100	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-137_1-2	Lab Sample ID:	AB34961
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	92%
Dry Weight Extracted:	24.298 grams	Extract Dilution:	1
Wet Weight Extracted:	26.269 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**110**	100	
140-57-8	Aramite	ND	100	
103-33-3	Azobenzene	ND	100	
92-87-5	Benzidine	ND	100	
56-55-3	Benzo(a)anthracene	**410**	100	
50-32-8	Benzo(a)pyrene	**520**	100	
205-99-2	Benzo(b)fluoranthene	**560**	100	
191-24-2	Benzo(g,h,i)perylene	**370**	100	
207-08-9	Benzo(k)fluoranthene	**190**	100	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	100	
111-44-4	Bis(2-Chloroethyl)ether	ND	100	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	100	
85-68-7	Butylbenzylphthalate	ND	100	
86-74-8	Carbazole	ND	100	
510-15-6	Chlorobenzilate	ND	100	
218-01-9	Chrysene	**700**	100	
84-74-2	Di-n-butylphthalate	ND	100	
117-84-0	Di-n-octyl phthalate	ND	100	
53-70-3	Dibenz(a,h)anthracene	ND	100	
132-64-9	Dibenzofuran	ND	100	
84-66-2	Diethylphthalate	ND	100	
131-11-3	Dimethyl phthalate	ND	100	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	100	
206-44-0	Fluoranthene	**770**	100	
86-73-7	Fluorene	ND	100	
118-74-1	Hexachlorobenzene	ND	100	
87-68-3	Hexachlorobutadiene	ND	100	
77-47-4	Hexachlorocyclopentadiene	ND	100	
67-72-1	Hexachloroethane	ND	100	
1888-71-7	Hexachloropropene	ND	100	
193-39-5	Indeno(1,2,3-cd)pyrene	**240**	100	
465-73-6	Isodrin	ND	100	
78-59-1	Isophorone	ND	100	
120-58-1	Isosafrole	ND	100	
143-50-0	Kepone	ND	100	
66-27-3	Methyl methanesulfonate	ND	100	
86-30-6	N-Nitrosodiphenylamine	ND	100	
621-64-7	N-nitroso-di-n-propylamine	ND	100	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-137_1-2	Lab Sample ID:	AB34961
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	92%
Dry Weight Extracted:	24.298 grams	Extract Dilution:	1
Wet Weight Extracted:	26.269 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	100	
91-20-3	Naphthalene	**100**	100	
98-95-3	Nitrobenzene	ND	100	
608-93-5	Pentachlorobenzene	ND	100	
82-68-8	Pentachloronitrobenzene	ND	100	
87-86-5	Pentachlorophenol	ND	100	
62-44-2	Phenacetin	ND	100	
85-01-8	Phenanthrene	**1200**	100	
108-95-2	Phenol	ND	100	
129-00-0	Pyrene	**1300**	100	
110-86-1	Pyridine	ND	100	
94-59-7	Safrole	ND	100	
111-91-1	bis(-2-Chloroethoxy)methane	ND	100	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	78	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-138_1-2	Lab Sample ID:	AB34962
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	74%
Dry Weight Extracted:	19.085 grams	Extract Dilution:	1
Wet Weight Extracted:	25.855 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-65-0	1,3-Dinitrobenzene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
130-15-4	1,4-Naphthoquinone	ND	130	
90-12-0	1-Methylnaphthalene	ND	130	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	130	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	130	
95-95-4	2,4,5-Trichlorophenol	ND	130	
88-06-2	2,4,6-Trichlorophenol	ND	130	
120-83-2	2,4-Dichlorophenol	ND	130	
51-28-5	2,4-Dinitrophenol	ND	260	
121-14-2	2,4-Dinitrotoluene	ND	130	
105-67-9	2,4-dimethylphenol	ND	130	
87-65-0	2,6-Dichlorophenol	ND	130	
606-20-2	2,6-Dinitrotoluene	ND	130	
91-58-7	2-Chloronaphthalene	ND	130	
95-57-8	2-Chlorophenol	ND	130	
91-57-6	2-Methylnaphthalene	ND	130	
95-48-7	2-Methylphenol	ND	130	
88-74-4	2-Nitroaniline	ND	130	
88-75-5	2-Nitrophenol	ND	130	
108-39-4/106-44-	3&4-Methylphenol	ND	260	
91-94-1	3,3'-Dichlorobenzidine	ND	130	
56-49-5	3-Methylcholanthrene	ND	130	
99-09-2	3-Nitroaniline	ND	130	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	130	
59-50-7	4-Chloro-3-methylphenol	ND	130	
106-47-8	4-Chloroaniline	ND	130	
7005-72-3	4-Chlorophenyl-phenylether	ND	130	
100-01-6	4-Nitroaniline	ND	130	
100-02-7	4-Nitrophenol	ND	130	
56-57-5	4-nitroquinoline-1-oxide	ND	520	
83-32-9	Acenaphthene	ND	130	
208-96-8	Acenaphthylene	ND	130	
98-86-2	Acetophenone	ND	130	
62-53-3	Aniline	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-138_1-2	Lab Sample ID:	AB34962
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	74%
Dry Weight Extracted:	19.085 grams	Extract Dilution:	1
Wet Weight Extracted:	25.855 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	130	
140-57-8	Aramite	ND	130	
103-33-3	Azobenzene	ND	130	
92-87-5	Benzidine	ND	130	
56-55-3	Benzo(a)anthracene	ND	130	
50-32-8	Benzo(a)pyrene	ND	130	
205-99-2	Benzo(b)fluoranthene	ND	130	
191-24-2	Benzo(g,h,i)perylene	ND	130	
207-08-9	Benzo(k)fluoranthene	ND	130	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	130	
111-44-4	Bis(2-Chloroethyl)ether	ND	130	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	130	
85-68-7	Butylbenzylphthalate	ND	130	
86-74-8	Carbazole	ND	130	
510-15-6	Chlorobenzilate	ND	130	
218-01-9	Chrysene	ND	130	
84-74-2	Di-n-butylphthalate	ND	130	
117-84-0	Di-n-octyl phthalate	ND	130	
53-70-3	Dibenz(a,h)anthracene	ND	130	
132-64-9	Dibenzofuran	ND	130	
84-66-2	Diethylphthalate	ND	130	
131-11-3	Dimethyl phthalate	ND	130	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	130	
206-44-0	Fluoranthene	ND	130	
86-73-7	Fluorene	ND	130	
118-74-1	Hexachlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
77-47-4	Hexachlorocyclopentadiene	ND	130	
67-72-1	Hexachloroethane	ND	130	
1888-71-7	Hexachloropropene	ND	130	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	
465-73-6	Isodrin	ND	130	
78-59-1	Isophorone	ND	130	
120-58-1	Isosafrole	ND	130	
143-50-0	Kepone	ND	130	
66-27-3	Methyl methanesulfonate	ND	130	
86-30-6	N-Nitrosodiphenylamine	ND	130	
621-64-7	N-nitroso-di-n-propylamine	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-138_1-2	Lab Sample ID:	AB34962
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	74%
Dry Weight Extracted:	19.085 grams	Extract Dilution:	1
Wet Weight Extracted:	25.855 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	130	
91-20-3	Naphthalene	ND	130	
98-95-3	Nitrobenzene	ND	130	
608-93-5	Pentachlorobenzene	ND	130	
82-68-8	Pentachloronitrobenzene	ND	130	
87-86-5	Pentachlorophenol	ND	130	
62-44-2	Phenacetin	ND	130	
85-01-8	Phenanthrene	ND	130	
108-95-2	Phenol	ND	130	
129-00-0	Pyrene	ND	130	
110-86-1	Pyridine	ND	130	
94-59-7	Safrole	ND	130	
111-91-1	bis(-2-Chloroethoxy)methane	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	50	22 - 97
Phenol-d6 (SS2)	53	23 - 99
Nitrobenzene-d5 (SS3)	42	20 - 98
2-Fluorobiphenyl (SS4)	50	23 - 104
2,4,6-Tribromophenol (SS5)	58	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-140_0-.5	Lab Sample ID:	AB34963
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	84%
Dry Weight Extracted:	18.897 grams	Extract Dilution:	1
Wet Weight Extracted:	22.420 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-65-0	1,3-Dinitrobenzene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
130-15-4	1,4-Naphthoquinone	ND	130	
90-12-0	1-Methylnaphthalene	ND	130	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	130	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	130	
95-95-4	2,4,5-Trichlorophenol	ND	130	
88-06-2	2,4,6-Trichlorophenol	ND	130	
120-83-2	2,4-Dichlorophenol	ND	130	
51-28-5	2,4-Dinitrophenol	ND	260	
121-14-2	2,4-Dinitrotoluene	ND	130	
105-67-9	2,4-dimethylphenol	ND	130	
87-65-0	2,6-Dichlorophenol	ND	130	
606-20-2	2,6-Dinitrotoluene	ND	130	
91-58-7	2-Chloronaphthalene	ND	130	
95-57-8	2-Chlorophenol	ND	130	
91-57-6	2-Methylnaphthalene	ND	130	
95-48-7	2-Methylphenol	ND	130	
88-74-4	2-Nitroaniline	ND	130	
88-75-5	2-Nitrophenol	ND	130	
108-39-4/106-44-	3&4-Methylphenol	ND	260	
91-94-1	3,3'-Dichlorobenzidine	ND	130	
56-49-5	3-Methylcholanthrene	ND	130	
99-09-2	3-Nitroaniline	ND	130	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	130	
59-50-7	4-Chloro-3-methylphenol	ND	130	
106-47-8	4-Chloroaniline	ND	130	
7005-72-3	4-Chlorophenyl-phenylether	ND	130	
100-01-6	4-Nitroaniline	ND	130	
100-02-7	4-Nitrophenol	ND	130	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	ND	130	
208-96-8	Acenaphthylene	ND	130	
98-86-2	Acetophenone	ND	130	
62-53-3	Aniline	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-140_0-.5	Lab Sample ID:	AB34963
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	84%
Dry Weight Extracted:	18.897 grams	Extract Dilution:	1
Wet Weight Extracted:	22.420 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	130	
140-57-8	Aramite	ND	130	
103-33-3	Azobenzene	ND	130	
92-87-5	Benzidine	ND	130	
56-55-3	Benzo(a)anthracene	ND	130	
50-32-8	Benzo(a)pyrene	**140**	130	
205-99-2	Benzo(b)fluoranthene	**180**	130	
191-24-2	Benzo(g,h,i)perylene	**160**	130	
207-08-9	Benzo(k)fluoranthene	ND	130	
65-85-0	Benzoic acid	**410**	260	
100-51-6	Benzyl alcohol	ND	130	
111-44-4	Bis(2-Chloroethyl)ether	ND	130	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	130	
85-68-7	Butylbenzylphthalate	ND	130	
86-74-8	Carbazole	ND	130	
510-15-6	Chlorobenzilate	ND	130	
218-01-9	Chrysene	**150**	130	
84-74-2	Di-n-butylphthalate	ND	130	
117-84-0	Di-n-octyl phthalate	ND	130	
53-70-3	Dibenz(a,h)anthracene	ND	130	
132-64-9	Dibenzofuran	ND	130	
84-66-2	Diethylphthalate	ND	130	
131-11-3	Dimethyl phthalate	ND	130	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	130	
206-44-0	Fluoranthene	**210**	130	
86-73-7	Fluorene	ND	130	
118-74-1	Hexachlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
77-47-4	Hexachlorocyclopentadiene	ND	130	
67-72-1	Hexachloroethane	ND	130	
1888-71-7	Hexachloropropene	ND	130	
193-39-5	Indeno(1,2,3-cd)pyrene	**130**	130	
465-73-6	Isodrin	ND	130	
78-59-1	Isophorone	ND	130	
120-58-1	Isosafrole	ND	130	
143-50-0	Kepone	ND	130	
66-27-3	Methyl methanesulfonate	ND	130	
86-30-6	N-Nitrosodiphenylamine	ND	130	
621-64-7	N-nitroso-di-n-propylamine	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-140_0-.5	Lab Sample ID:	AB34963
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	84%
Dry Weight Extracted:	18.897 grams	Extract Dilution:	1
Wet Weight Extracted:	22.420 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	130	
91-20-3	Naphthalene	ND	130	
98-95-3	Nitrobenzene	ND	130	
608-93-5	Pentachlorobenzene	ND	130	
82-68-8	Pentachloronitrobenzene	ND	130	
87-86-5	Pentachlorophenol	**380**	130	
62-44-2	Phenacetin	ND	130	
85-01-8	Phenanthrene	**170**	130	
108-95-2	Phenol	ND	130	
129-00-0	Pyrene	**190**	130	
110-86-1	Pyridine	ND	130	
94-59-7	Safrole	ND	130	
111-91-1	bis(-2-Chloroethoxy)methane	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	80	22 - 97
Phenol-d6 (SS2)	85	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	68	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-140_1-2	Lab Sample ID:	AB34964
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	22.01 grams	Extract Dilution:	1
Wet Weight Extracted:	25.292 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	450	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-140_1-2	Lab Sample ID:	AB34964
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	22.01 grams	Extract Dilution:	1
Wet Weight Extracted:	25.292 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	230	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-140_1-2	Lab Sample ID:	AB34964
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	22.01 grams	Extract Dilution:	1
Wet Weight Extracted:	25.292 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	58	22 - 97
Phenol-d6 (SS2)	55	23 - 99
Nitrobenzene-d5 (SS3)	50	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	58	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-145_0-.5	Lab Sample ID:	AB34965
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	82%
Dry Weight Extracted:	19.053 grams	Extract Dilution:	1
Wet Weight Extracted:	23.287 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-65-0	1,3-Dinitrobenzene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
130-15-4	1,4-Naphthoquinone	ND	130	
90-12-0	1-Methylnaphthalene	ND	130	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	130	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	130	
95-95-4	2,4,5-Trichlorophenol	ND	130	
88-06-2	2,4,6-Trichlorophenol	ND	130	
120-83-2	2,4-Dichlorophenol	ND	130	
51-28-5	2,4-Dinitrophenol	ND	260	
121-14-2	2,4-Dinitrotoluene	ND	130	
105-67-9	2,4-dimethylphenol	ND	130	
87-65-0	2,6-Dichlorophenol	ND	130	
606-20-2	2,6-Dinitrotoluene	ND	130	
91-58-7	2-Chloronaphthalene	ND	130	
95-57-8	2-Chlorophenol	ND	130	
91-57-6	2-Methylnaphthalene	ND	130	
95-48-7	2-Methylphenol	ND	130	
88-74-4	2-Nitroaniline	ND	130	
88-75-5	2-Nitrophenol	ND	130	
108-39-4/106-44-	3&4-Methylphenol	ND	260	
91-94-1	3,3'-Dichlorobenzidine	ND	130	
56-49-5	3-Methylcholanthrene	ND	130	
99-09-2	3-Nitroaniline	ND	130	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	130	
59-50-7	4-Chloro-3-methylphenol	ND	130	
106-47-8	4-Chloroaniline	ND	130	
7005-72-3	4-Chlorophenyl-phenylether	ND	130	
100-01-6	4-Nitroaniline	ND	130	
100-02-7	4-Nitrophenol	ND	130	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	ND	130	
208-96-8	Acenaphthylene	ND	130	
98-86-2	Acetophenone	ND	130	
62-53-3	Aniline	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-145_0-.5	Lab Sample ID:	AB34965
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	82%
Dry Weight Extracted:	19.053 grams	Extract Dilution:	1
Wet Weight Extracted:	23.287 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	130	
140-57-8	Aramite	ND	130	
103-33-3	Azobenzene	ND	130	
92-87-5	Benzidine	ND	130	
56-55-3	Benzo(a)anthracene	**260**	130	
50-32-8	Benzo(a)pyrene	**320**	130	
205-99-2	Benzo(b)fluoranthene	**540**	130	
191-24-2	Benzo(g,h,i)perylene	**260**	130	
207-08-9	Benzo(k)fluoranthene	**190**	130	
65-85-0	Benzoic acid	**420**	260	
100-51-6	Benzyl alcohol	ND	130	
111-44-4	Bis(2-Chloroethyl)ether	ND	130	
117-81-7	Bis(2-ethylhexyl)phthalate	**260**	130	
85-68-7	Butylbenzylphthalate	ND	130	
86-74-8	Carbazole	ND	130	
510-15-6	Chlorobenzilate	ND	130	
218-01-9	Chrysene	**410**	130	
84-74-2	Di-n-butylphthalate	ND	130	
117-84-0	Di-n-octyl phthalate	ND	130	
53-70-3	Dibenz(a,h)anthracene	ND	130	
132-64-9	Dibenzofuran	ND	130	
84-66-2	Diethylphthalate	ND	130	
131-11-3	Dimethyl phthalate	ND	130	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	130	
206-44-0	Fluoranthene	**710**	130	
86-73-7	Fluorene	ND	130	
118-74-1	Hexachlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
77-47-4	Hexachlorocyclopentadiene	ND	130	
67-72-1	Hexachloroethane	ND	130	
1888-71-7	Hexachloropropene	ND	130	
193-39-5	Indeno(1,2,3-cd)pyrene	**210**	130	
465-73-6	Isodrin	ND	130	
78-59-1	Isophorone	ND	130	
120-58-1	Isosafrole	ND	130	
143-50-0	Kepone	ND	130	
66-27-3	Methyl methanesulfonate	ND	130	
86-30-6	N-Nitrosodiphenylamine	ND	130	
621-64-7	N-nitroso-di-n-propylamine	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-145_0-.5	Lab Sample ID:	AB34965
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	82%
Dry Weight Extracted:	19.053 grams	Extract Dilution:	1
Wet Weight Extracted:	23.287 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	130	
91-20-3	Naphthalene	ND	130	
98-95-3	Nitrobenzene	ND	130	
608-93-5	Pentachlorobenzene	ND	130	
82-68-8	Pentachloronitrobenzene	ND	130	
87-86-5	Pentachlorophenol	ND	130	
62-44-2	Phenacetin	ND	130	
85-01-8	Phenanthrene	**390**	130	
108-95-2	Phenol	ND	130	
129-00-0	Pyrene	**580**	130	
110-86-1	Pyridine	ND	130	
94-59-7	Safrole	ND	130	
111-91-1	bis(-2-Chloroethoxy)methane	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	90	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	60	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-151_0-.5	Lab Sample ID:	AB34966
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	91%
Dry Weight Extracted:	23.136 grams	Extract Dilution:	1
Wet Weight Extracted:	25.480 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-151_0-.5	Lab Sample ID:	AB34966
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	91%
Dry Weight Extracted:	23.136 grams	Extract Dilution:	1
Wet Weight Extracted:	25.480 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-151_0-.5	Lab Sample ID:	AB34966
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	91%
Dry Weight Extracted:	23.136 grams	Extract Dilution:	1
Wet Weight Extracted:	25.480 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	60	22 - 97
Phenol-d6 (SS2)	60	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	68	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-152_0-.5	Lab Sample ID:	AB34967
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	89%
Dry Weight Extracted:	23.25 grams	Extract Dilution:	1
Wet Weight Extracted:	25.996 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-152_0-.5	Lab Sample ID:	AB34967
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	89%
Dry Weight Extracted:	23.25 grams	Extract Dilution:	1
Wet Weight Extracted:	25.996 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-152_0-.5	Lab Sample ID:	AB34967
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	89%
Dry Weight Extracted:	23.25 grams	Extract Dilution:	1
Wet Weight Extracted:	25.996 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	50	22 - 97
Phenol-d6 (SS2)	50	23 - 99
Nitrobenzene-d5 (SS3)	46	20 - 98
2-Fluorobiphenyl (SS4)	55	23 - 104
2,4,6-Tribromophenol (SS5)	53	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-153_0-.5	Lab Sample ID:	AB34968
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	87%
Dry Weight Extracted:	22.077 grams	Extract Dilution:	1
Wet Weight Extracted:	25.488 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	450	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-153_0-.5	Lab Sample ID:	AB34968
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	87%
Dry Weight Extracted:	22.077 grams	Extract Dilution:	1
Wet Weight Extracted:	25.488 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	**410**	230	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-153_0-.5	Lab Sample ID:	AB34968
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	87%
Dry Weight Extracted:	22.077 grams	Extract Dilution:	1
Wet Weight Extracted:	25.488 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	68	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	73	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-122_1-2	Lab Sample ID:	AB34976
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	84%
Dry Weight Extracted:	22.212 grams	Extract Dilution:	1
Wet Weight Extracted:	26.379 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	450	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-122_1-2	Lab Sample ID:	AB34976
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	84%
Dry Weight Extracted:	22.212 grams	Extract Dilution:	1
Wet Weight Extracted:	26.379 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	230	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-122_1-2	Lab Sample ID:	AB34976
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/25/12	Amount Prepared	N/A
Date of Analysis:	10/26/12	Percent Solids:	84%
Dry Weight Extracted:	22.212 grams	Extract Dilution:	1
Wet Weight Extracted:	26.379 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	53	22 - 97
Phenol-d6 (SS2)	55	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	55	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

MATRIX SPIKE (MS)

Mohawk Tannery - Nashua, NH

Sample ID: AB34954

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	2,230	ND	1600	72	47 - 97
1,2,4-Trichlorobenzene	2,230	ND	1500	67	46 - 95
1,2-Dichlorobenzene	2,230	ND	1600	72	42 - 90
1,3-Dichlorobenzene	2,230	ND	1400	63	41 - 86
1,3-Dinitrobenzene	2,230	ND	1700	76	36 - 117
1,4-Dichlorobenzene	2,230	ND	1500	67	41 - 86
1,4-Naphthoquinone	2,230	ND	1500	67	10 - 123
1-Methylnaphthalene	2,230	ND	1500	67	49 - 99
2,2'-oxybis(1-chloropropane)	2,230	ND	1500	67	35 - 117
2,3,4,6-Tetrachlorophenol	2,230	ND	1800	81	7.7 - 168
2,4,5-Trichlorophenol	2,230	ND	1700	76	54 - 103
2,4,6-Trichlorophenol	2,230	ND	1700	76	33 - 119
2,4-Dichlorophenol	2,230	ND	1600	72	42 - 107
2,4-Dinitrophenol	2,230	ND	1400	63	10 - 114
2,4-Dinitrotoluene	2,230	ND	1600	72	29 - 129
2,4-dimethylphenol	2,230	ND	1500	67	35 - 105
2,6-Dichlorophenol	2,230	ND	1600	72	28 - 114
2,6-Dinitrotoluene	2,230	ND	1600	72	57 - 105
2-Chloronaphthalene	2,230	ND	1500	67	45 - 108
2-Chlorophenol	2,230	ND	1900	85	41 - 102
2-Methylnaphthalene	2,230	ND	1500	67	43 - 101
2-Methylphenol	2,230	ND	1800	81	45 - 102
2-Nitroaniline	2,230	ND	1600	72	40 - 142
2-Nitrophenol	2,230	ND	1600	72	48 - 99
3&4-Methylphenol	4,460	ND	3600	81	10 - 154
3,3'-Dichlorobenzidine	2,230	ND	1700	76	10 - 137
3-Methylcholanthrene	2,230	ND	1800	81	25 - 123
3-Nitroaniline	2,230	ND	1500	67	30 - 114
4,6-Dinitro-2-methylphenol	2,230	ND	1500	67	10 - 115
4-Bromophenyl-phenylether	2,230	ND	1600	72	48 - 116
4-Chloro-3-methylphenol	2,230	ND	1600	72	43 - 112
4-Chloroaniline	2,230	ND	960	43	17 - 94
4-Chlorophenyl-phenylether	2,230	ND	1700	76	52 - 103
4-Nitroaniline	2,230	ND	1600	72	17 - 117
4-Nitrophenol	2,230	ND	1800	81	17 - 141
4-nitroquinoline-1-oxide	2,230	ND	1000	45	4.4 - 101
Acenaphthene	2,230	ND	1600	72	53 - 101
Acenaphthylene	2,230	ND	1600	72	56 - 99
Acetophenone	2,230	ND	1700	76	46 - 101
Aniline	2,230	ND	940	42	10 - 90
Anthracene	2,230	ND	1600	72	58 - 108
Aramite	2,230	ND	1700	76	39 - 118
Azobenzene	2,230	ND	1700	76	53 - 117
Benzidine	2,230	ND	ND	ND	10 - 41
Benzo(a)anthracene	2,230	ND	1700	76	50 - 112
Benzo(a)pyrene	2,230	ND	1700	76	34 - 122
Benzo(b)fluoranthene	2,230	ND	1800	81	42 - 120
Benzo(g,h,i)perylene	2,230	ND	1800	81	50 - 108

Benzo(k)fluoranthene	2,230	ND	1800	81	33 - 116
Benzoic acid	2,230	ND	960	43	10 - 168
Benzyl alcohol	2,230	ND	1800	81	18 - 131
Bis(2-Chloroethyl)ether	2,230	ND	1700	76	45 - 98
Bis(2-ethylhexyl)phthalate	2,230	ND	1800	81	22 - 151
Butylbenzylphthalate	2,230	ND	1700	76	56 - 120
Carbazole	2,230	ND	1600	72	52 - 114
Chlorobenzilate	2,230	ND	1800	81	50 - 129
Chrysene	2,230	ND	1800	81	43 - 111
Di-n-butylphthalate	2,230	ND	1700	76	57 - 125
Di-n-octyl phthalate	2,230	ND	1700	76	39 - 128
Dibenz(a,h)anthracene	2,230	ND	1800	81	31 - 129
Dibenzofuran	2,230	ND	1500	67	53 - 100
Diethylphthalate	2,230	ND	1700	76	54 - 106
Dimethyl phthalate	2,230	ND	1700	76	54 - 104
Dinoseb	2,230	ND	1500	67	6.4 - 114
Ethyl methanesulfonate	2,230	ND	1700	76	46 - 100
Fluoranthene	2,230	ND	1700	76	43 - 126
Fluorene	2,230	ND	1600	72	57 - 103
Hexachlorobenzene	2,230	ND	1700	76	46 - 113
Hexachlorobutadiene	2,230	ND	1400	63	44 - 93
Hexachlorocyclopentadiene	2,230	ND	1600	72	10 - 115
Hexachloroethane	2,230	ND	1600	72	36 - 88
Hexachloropropene	2,230	ND	1500	67	10 - 112
Indeno(1,2,3-cd)pyrene	2,230	ND	1800	81	29 - 131
Isodrin	2,230	ND	1500	67	6.7 - 141
Isophorone	2,230	ND	1500	67	52 - 108
Isosafrole	2,230	ND	1500	67	49 - 97
Kepone	2,230	ND	ND	ND	10 - 126
Methyl methanesulfonate	2,230	ND	1900	85	15 - 112
N-Nitrosodiphenylamine	2,230	ND	1600	72	50 - 107
N-nitroso-di-n-propylamine	2,230	ND	1600	72	45 - 108
N-nitrosodimethylamine	2,230	ND	1600	72	34 - 90
Naphthalene	2,230	ND	1500	67	43 - 100
Nitrobenzene	2,230	ND	1500	67	46 - 103
Pentachlorobenzene	2,230	ND	1600	72	50 - 101
Pentachloronitrobenzene	2,230	ND	1600	72	51 - 119
Pentachlorophenol	2,230	ND	1500	67	6.2 - 128
Phenacetin	2,230	ND	1700	76	54 - 124
Phenanthrene	2,230	ND	1600	72	47 - 119
Phenol	2,230	ND	1900	85	48 - 97
Pyrene	2,230	ND	1700	76	49 - 117
Pyridine	2,230	ND	1100	49	14 - 67
Safrole	2,230	ND	1500	67	49 - 103
bis(-2-Chloroethoxy)methane	2,230	ND	1600	72	47 - 102

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34954

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	52
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	1333	1030	77	41 - 113
1,2,4-Trichlorobenzene	1333	904	68	39 - 111
1,2-Dichlorobenzene	1333	831	62	36 - 106
1,3-Dichlorobenzene	1333	830	62	35 - 103
1,3-Dinitrobenzene	1333	1100	83	26 - 138
1,4-Dichlorobenzene	1333	836	63	35 - 103
1,4-Naphthoquinone	1333	938	70	37 - 134
1-Methylnaphthalene	1333	902	68	41 - 117
2,2'-oxybis(1-chloropropane)	1333	833	63	30 - 134
2,3,4,6-Tetrachlorophenol	1333	1030	77	16 - 153
2,4,5-Trichlorophenol	1333	1100	83	38 - 122
2,4,6-Trichlorophenol	1333	1010	76	39 - 121
2,4-Dichlorophenol	1333	951	71	40 - 118
2,4-Dinitrophenol	1333	316	24	10 - 71
2,4-Dinitrotoluene	1333	1100	83	47 - 127
2,4-dimethylphenol	1333	702	53	30 - 120
2,6-Dichlorophenol	1333	901	68	40 - 116
2,6-Dinitrotoluene	1333	986	74	46 - 128
2-Chloronaphthalene	1333	993	75	42 - 125
2-Chlorophenol	1333	987	74	41 - 115
2-Methylnaphthalene	1333	898	67	35 - 120
2-Methylphenol	1333	923	69	40 - 119
2-Nitroaniline	1333	1060	80	29 - 163
2-Nitrophenol	1333	943	71	35 - 115
3&4-Methylphenol	2666	1840	69	3.5 - 149
3,3'-Dichlorobenzidine	1333	961	72	29 - 114
3-Methylcholanthrene	1333	1140	86	40 - 126
3-Nitroaniline	1333	925	69	44 - 120
4,6-Dinitro-2-methylphenol	1333	544	41	10 - 97
4-Bromophenyl-phenylether	1333	1100	83	40 - 133
4-Chloro-3-methylphenol	1333	957	72	36 - 133
4-Chloroaniline	1333	509	38	28 - 99
4-Chlorophenyl-phenylether	1333	1070	80	45 - 119
4-Nitroaniline	1333	1050	79	37 - 131
4-Nitrophenol	1333	1100	83	15 - 141
4-nitroquinoline-1-oxide	1333	753	57	19 - 118
Acenaphthene	1333	923	69	44 - 119
Acenaphthylene	1333	982	74	44 - 121
Acetophenone	1333	897	67	41 - 115
Aniline	1333	448	34	20 - 99
Anthracene	1333	1040	78	40 - 137
Aramite	1333	1030	77	37 - 118
Azobenzene	1333	1070	80	41 - 141
Benzidine	1333	103	8	2 - 76
Benzo(a)anthracene	1333	1130	85	46 - 128
Benzo(a)pyrene	1333	1130	85	49 - 124
Benzo(b)fluoranthene	1333	1150	86	41 - 135
Benzo(g,h,i)perylene	1333	1130	85	47 - 123
Benzo(k)fluoranthene	1333	1150	86	50 - 114
Benzoic acid	1333	1480	111	10 - 122
Benzyl alcohol	1333	905	68	28 - 129
Bis(2-Chloroethyl)ether	1333	915	69	40 - 112

Bis(2-ethylhexyl)phthalate	1333	1150	86	38 - 143
Butylbenzylphthalate	1333	1070	80	40 - 143
Carbazole	1333	1020	77	42 - 133
Chlorobenzilate	1333	1060	80	45 - 139
Chrysene	1333	1100	83	47 - 118
Di-n-butylphthalate	1333	1060	80	33 - 183
Di-n-octyl phthalate	1333	1090	82	44 - 125
Dibenz(a,h)anthracene	1333	1090	82	47 - 128
Dibenzofuran	1333	994	75	44 - 118
Diethylphthalate	1333	1040	78	44 - 132
Dimethyl phthalate	1333	1020	77	46 - 121
Dinoseb	1333	726	55	10 - 118
Ethyl methanesulfonate	1333	895	67	41 - 117
Fluoranthene	1333	1090	82	42 - 135
Fluorene	1333	991	74	47 - 122
Hexachlorobenzene	1333	1040	78	38 - 133
Hexachlorobutadiene	1333	924	69	40 - 108
Hexachlorocyclopentadiene	1333	959	72	18 - 130
Hexachloroethane	1333	899	67	34 - 106
Hexachloropropene	1333	965	72	31 - 115
Indeno(1,2,3-cd)pyrene	1333	1180	89	46 - 127
Isodrin	1333	987	74	43 - 137
Isophorone	1333	926	70	45 - 125
Isosafrole	1333	945	71	41 - 115
Kepone	1333	ND	0	12 - 101
Methyl methanesulfonate	1333	984	74	6.3 - 136
N-Nitrosodiphenylamine	1333	1060	80	30 - 148
N-nitroso-di-n-propylamine	1333	876	66	41 - 122
N-nitrosodimethylamine	1333	840	63	28 - 107
Naphthalene	1333	892	67	38 - 118
Nitrobenzene	1333	922	69	40 - 119
Pentachlorobenzene	1333	1060	80	44 - 116
Pentachloronitrobenzene	1333	1050	79	39 - 139
Pentachlorophenol	1333	734	55	10 - 117
Phenacetin	1333	1060	80	39 - 146
Phenanthrene	1333	1040	78	39 - 134
Phenol	1333	972	73	39 - 121
Pyrene	1333	1040	78	45 - 130
Pyridine	1333	637	48	22 - 77
Safrole	1333	977	73	45 - 119
bis(-2-Chloroethoxy)methane	1333	945	71	40 - 119

Comments:

PN: 12100037

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly M Dubois	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10-23-12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-107_0-.5	10/22/12	9:22	SO	X	X	X			3		
	MHK_SS-107_1-2	10/22/12	9:38	SO	X	X				2		
	MHK_SS-110_0-.5	10/22/12	9:55	SO	X	X	X			3		
	MHK_SS-110_1-2	10/22/12	10:05	SO	X	X				2		
	MHK_SS-116_0-.5	10/22/12	10:18	SO	X	X	X			3		
	MHK_SS-116_1-2	10/22/12	10:28	SO	X	X				2		
	MHK_SS-122_0-.5	10/22/12	11:28	SO	X	X	X			3		
	MHK_SS-122_1-2	10/22/12	11:38	SO	X	X				2		
	MHK_SS-137_0-.5	10/22/12	11:50	SO	X	X	X			3		
	MHK_SS-137_1-2	10/22/12	11:58	SO	X	X				2		

PN: 12100037

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1505
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-138_1-2	10/23/12	12:24	SO	X	X				2		
	MHK_SS-140_0-.5	10/23/12	12:39	SO	X	X	X			3		
	MHK_SS-140_1-2	10/23/12	12:52	SO	X	X				2		
	MHK_SS-145_0-.5	10/23/12	9:04	SO	X	X	X			3		
	MHK_SS-151_0-.5	10/23/12	10:09	SO	X	X	X			3		
	MHK_SS-152_0-.5	10/23/12	10:20	SO	X	X	X			3		
	MHK_SS-153_0-.5	10/23/12	10:37	SO	X	X	X			3		
	MHK_SS-154_0-.5	10/23/12	11:16	SO	X	X	X			3		
	MHK_SS-155_0-.5	10/23/12	11:30	SO	X	X	X			3		
	OW-201	10/23/12	12:39	SO	X	X	X			3		
	EQUIP BLANK	10/23/12	13:30	AQ	X	X				6		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

November 06, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100037
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Soil High Level Method
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Date Samples Received by the Laboratory: 10/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-107_0-.5	Lab Sample ID:	AB34953
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.994 grams	Extract Dilution:	50
Wet Weight Extracted:	11.621 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	58	
71-55-6	1,1,1-Trichloroethane	ND	58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	58	
79-00-5	1,1,2-Trichloroethane	ND	58	
75-35-4	1,1-Dichloroethylene	ND	58	
563-58-6	1,1-Dichloropropene	ND	58	
75-34-3	1,1-dichloroethane	ND	58	
87-61-6	1,2,3-Trichlorobenzene	ND	58	
96-18-4	1,2,3-Trichloropropane	ND	58	
120-82-1	1,2,4-Trichlorobenzene	ND	58	
95-63-6	1,2,4-Trimethylbenzene	ND	58	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	58	
106-93-4	1,2-Dibromoethane	ND	58	
95-50-1	1,2-Dichlorobenzene	ND	58	
107-06-2	1,2-Dichloroethane	ND	58	
78-87-5	1,2-Dichloropropane	ND	58	
108-67-8	1,3,5-Trimethylbenzene	ND	58	
541-73-1	1,3-Dichlorobenzene	ND	58	
142-28-9	1,3-Dichloropropane	ND	58	
106-46-7	1,4-Dichlorobenzene	ND	58	
594-20-7	2,2-Dichloropropane	ND	58	
78-93-3	2-Butanone (MEK)	ND	58	
95-49-8	2-Chlorotoluene	ND	58	
591-78-6	2-Hexanone	ND	58	
67-64-1	2-Propanone (acetone)	ND	58	
106-43-4	4-Chlorotoluene	ND	58	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	58	
107-13-1	Acrylonitrile	ND	58	
71-43-2	Benzene	ND	58	
108-86-1	Bromobenzene	ND	58	
74-97-5	Bromochloromethane	ND	58	
75-27-4	Bromodichloromethane	ND	58	
75-25-2	Bromoform	ND	58	
74-83-9	Bromomethane	ND	58	
75-15-0	Carbon Disulfide	ND	58	
56-23-5	Carbon tetrachloride	ND	58	
108-90-7	Chlorobenzene	ND	58	
75-00-3	Chloroethane	ND	58	
67-66-3	Chloroform	ND	58	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-107_0-.5	Lab Sample ID:	AB34953
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.994 grams	Extract Dilution:	50
Wet Weight Extracted:	11.621 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	58	
124-48-1	Dibromochloromethane	ND	58	
74-95-3	Dibromomethane	ND	58	
75-71-8	Dichlorodifluoromethane	ND	58	
60-29-7	Ethyl Ether	ND	58	
100-41-4	Ethylbenzene	ND	58	
87-68-3	Hexachlorobutadiene	ND	58	
98-82-8	Isopropylbenzene	ND	58	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	58	
75-09-2	Methylene Chloride	ND	58	
104-51-8	N-Butylbenzene	ND	58	
103-65-1	N-Propylbenzene	ND	58	
91-20-3	Naphthalene	ND	58	
95-47-6	Ortho Xylene	ND	58	
99-87-6	Para-Isopropyltoluene	ND	58	
135-98-8	Sec-Butylbenzene	ND	58	
100-42-5	Styrene	ND	58	
98-06-6	Tert-Butylbenzene	ND	58	
127-18-4	Tetrachloroethylene	ND	58	
109-99-9	Tetrahydrofuran	ND	58	
108-88-3	Toluene	ND	58	
156-60-5	Trans-1,2-Dichloroethylene	ND	58	
79-01-6	Trichloroethylene	ND	58	
75-69-4	Trichlorofluoromethane	ND	58	
108-05-4	Vinyl Acetate	ND	58	
75-01-4	Vinyl Chloride	ND	58	
10061-01-5	c-1,3-dichloropropene	ND	58	
156-59-2	cis-1,2-Dichloroethylene	ND	58	
10061-02-6	t-1,3-Dichloropropene	ND	58	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	93	78 - 111
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	100	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	104	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34953 (MS/MSD and Duplicate Studies) - AB34956.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-107_1-2	Lab Sample ID:	AB34954
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	9.647 grams	Extract Dilution:	50
Wet Weight Extracted:	11.088 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	
71-55-6	1,1,1-Trichloroethane	ND	59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	59	
79-00-5	1,1,2-Trichloroethane	ND	59	
75-35-4	1,1-Dichloroethylene	ND	59	
563-58-6	1,1-Dichloropropene	ND	59	
75-34-3	1,1-dichloroethane	ND	59	
87-61-6	1,2,3-Trichlorobenzene	ND	59	
96-18-4	1,2,3-Trichloropropane	ND	59	
120-82-1	1,2,4-Trichlorobenzene	ND	59	
95-63-6	1,2,4-Trimethylbenzene	ND	59	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	59	
106-93-4	1,2-Dibromoethane	ND	59	
95-50-1	1,2-Dichlorobenzene	ND	59	
107-06-2	1,2-Dichloroethane	ND	59	
78-87-5	1,2-Dichloropropane	ND	59	
108-67-8	1,3,5-Trimethylbenzene	ND	59	
541-73-1	1,3-Dichlorobenzene	ND	59	
142-28-9	1,3-Dichloropropane	ND	59	
106-46-7	1,4-Dichlorobenzene	ND	59	
594-20-7	2,2-Dichloropropane	ND	59	
78-93-3	2-Butanone (MEK)	ND	59	
95-49-8	2-Chlorotoluene	ND	59	
591-78-6	2-Hexanone	ND	59	
67-64-1	2-Propanone (acetone)	ND	59	
106-43-4	4-Chlorotoluene	ND	59	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	59	
107-13-1	Acrylonitrile	ND	59	
71-43-2	Benzene	ND	59	
108-86-1	Bromobenzene	ND	59	
74-97-5	Bromochloromethane	ND	59	
75-27-4	Bromodichloromethane	ND	59	
75-25-2	Bromoform	ND	59	
74-83-9	Bromomethane	ND	59	
75-15-0	Carbon Disulfide	ND	59	
56-23-5	Carbon tetrachloride	ND	59	
108-90-7	Chlorobenzene	ND	59	
75-00-3	Chloroethane	ND	59	
67-66-3	Chloroform	ND	59	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-107_1-2	Lab Sample ID:	AB34954
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	9.647 grams	Extract Dilution:	50
Wet Weight Extracted:	11.088 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	59	
124-48-1	Dibromochloromethane	ND	59	
74-95-3	Dibromomethane	ND	59	
75-71-8	Dichlorodifluoromethane	ND	59	
60-29-7	Ethyl Ether	ND	59	
100-41-4	Ethylbenzene	ND	59	
87-68-3	Hexachlorobutadiene	ND	59	
98-82-8	Isopropylbenzene	ND	59	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	59	
75-09-2	Methylene Chloride	ND	59	
104-51-8	N-Butylbenzene	ND	59	
103-65-1	N-Propylbenzene	ND	59	
91-20-3	Naphthalene	ND	59	
95-47-6	Ortho Xylene	ND	59	
99-87-6	Para-Isopropyltoluene	ND	59	
135-98-8	Sec-Butylbenzene	ND	59	
100-42-5	Styrene	ND	59	
98-06-6	Tert-Butylbenzene	ND	59	
127-18-4	Tetrachloroethylene	ND	59	
109-99-9	Tetrahydrofuran	ND	59	
108-88-3	Toluene	ND	59	
156-60-5	Trans-1,2-Dichloroethylene	ND	59	
79-01-6	Trichloroethylene	ND	59	
75-69-4	Trichlorofluoromethane	ND	59	
108-05-4	Vinyl Acetate	ND	59	
75-01-4	Vinyl Chloride	ND	59	
10061-01-5	c-1,3-dichloropropene	ND	59	
156-59-2	cis-1,2-Dichloroethylene	ND	59	
10061-02-6	t-1,3-Dichloropropene	ND	59	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	98	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-110_0-.5	Lab Sample ID:	AB34955
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.805 grams	Extract Dilution:	50
Wet Weight Extracted:	11.401 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	
71-55-6	1,1,1-Trichloroethane	ND	59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	59	
79-00-5	1,1,2-Trichloroethane	ND	59	
75-35-4	1,1-Dichloroethylene	ND	59	
563-58-6	1,1-Dichloropropene	ND	59	
75-34-3	1,1-dichloroethane	ND	59	
87-61-6	1,2,3-Trichlorobenzene	ND	59	
96-18-4	1,2,3-Trichloropropane	ND	59	
120-82-1	1,2,4-Trichlorobenzene	ND	59	
95-63-6	1,2,4-Trimethylbenzene	ND	59	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	59	
106-93-4	1,2-Dibromoethane	ND	59	
95-50-1	1,2-Dichlorobenzene	ND	59	
107-06-2	1,2-Dichloroethane	ND	59	
78-87-5	1,2-Dichloropropane	ND	59	
108-67-8	1,3,5-Trimethylbenzene	ND	59	
541-73-1	1,3-Dichlorobenzene	ND	59	
142-28-9	1,3-Dichloropropane	ND	59	
106-46-7	1,4-Dichlorobenzene	ND	59	
594-20-7	2,2-Dichloropropane	ND	59	
78-93-3	2-Butanone (MEK)	ND	59	
95-49-8	2-Chlorotoluene	ND	59	
591-78-6	2-Hexanone	ND	59	
67-64-1	2-Propanone (acetone)	ND	59	
106-43-4	4-Chlorotoluene	ND	59	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	59	
107-13-1	Acrylonitrile	ND	59	
71-43-2	Benzene	ND	59	
108-86-1	Bromobenzene	ND	59	
74-97-5	Bromochloromethane	ND	59	
75-27-4	Bromodichloromethane	ND	59	
75-25-2	Bromoform	ND	59	
74-83-9	Bromomethane	ND	59	
75-15-0	Carbon Disulfide	ND	59	
56-23-5	Carbon tetrachloride	ND	59	
108-90-7	Chlorobenzene	ND	59	
75-00-3	Chloroethane	ND	59	
67-66-3	Chloroform	ND	59	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-110_0-.5	Lab Sample ID:	AB34955
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.805 grams	Extract Dilution:	50
Wet Weight Extracted:	11.401 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	59	
124-48-1	Dibromochloromethane	ND	59	
74-95-3	Dibromomethane	ND	59	
75-71-8	Dichlorodifluoromethane	ND	59	
60-29-7	Ethyl Ether	ND	59	
100-41-4	Ethylbenzene	ND	59	
87-68-3	Hexachlorobutadiene	ND	59	
98-82-8	Isopropylbenzene	ND	59	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	59	
75-09-2	Methylene Chloride	ND	59	
104-51-8	N-Butylbenzene	ND	59	
103-65-1	N-Propylbenzene	ND	59	
91-20-3	Naphthalene	ND	59	
95-47-6	Ortho Xylene	ND	59	
99-87-6	Para-Isopropyltoluene	ND	59	
135-98-8	Sec-Butylbenzene	ND	59	
100-42-5	Styrene	ND	59	
98-06-6	Tert-Butylbenzene	ND	59	
127-18-4	Tetrachloroethylene	ND	59	
109-99-9	Tetrahydrofuran	ND	59	
108-88-3	Toluene	ND	59	
156-60-5	Trans-1,2-Dichloroethylene	ND	59	
79-01-6	Trichloroethylene	ND	59	
75-69-4	Trichlorofluoromethane	ND	59	
108-05-4	Vinyl Acetate	ND	59	
75-01-4	Vinyl Chloride	ND	59	
10061-01-5	c-1,3-dichloropropene	ND	59	
156-59-2	cis-1,2-Dichloroethylene	ND	59	
10061-02-6	t-1,3-Dichloropropene	ND	59	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	107	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-110_1-2	Lab Sample ID:	AB34956
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	10.368 grams	Extract Dilution:	50
Wet Weight Extracted:	11.520 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	54	
71-55-6	1,1,1-Trichloroethane	ND	54	
79-34-5	1,1,2,2-Tetrachloroethane	ND	54	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	54	
79-00-5	1,1,2-Trichloroethane	ND	54	
75-35-4	1,1-Dichloroethylene	ND	54	
563-58-6	1,1-Dichloropropene	ND	54	
75-34-3	1,1-dichloroethane	ND	54	
87-61-6	1,2,3-Trichlorobenzene	ND	54	
96-18-4	1,2,3-Trichloropropane	ND	54	
120-82-1	1,2,4-Trichlorobenzene	ND	54	
95-63-6	1,2,4-Trimethylbenzene	ND	54	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	54	
106-93-4	1,2-Dibromoethane	ND	54	
95-50-1	1,2-Dichlorobenzene	ND	54	
107-06-2	1,2-Dichloroethane	ND	54	
78-87-5	1,2-Dichloropropane	ND	54	
108-67-8	1,3,5-Trimethylbenzene	ND	54	
541-73-1	1,3-Dichlorobenzene	ND	54	
142-28-9	1,3-Dichloropropane	ND	54	
106-46-7	1,4-Dichlorobenzene	ND	54	
594-20-7	2,2-Dichloropropane	ND	54	
78-93-3	2-Butanone (MEK)	ND	54	
95-49-8	2-Chlorotoluene	ND	54	
591-78-6	2-Hexanone	ND	54	
67-64-1	2-Propanone (acetone)	ND	54	
106-43-4	4-Chlorotoluene	ND	54	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	54	
107-13-1	Acrylonitrile	ND	54	
71-43-2	Benzene	ND	54	
108-86-1	Bromobenzene	ND	54	
74-97-5	Bromochloromethane	ND	54	
75-27-4	Bromodichloromethane	ND	54	
75-25-2	Bromoform	ND	54	
74-83-9	Bromomethane	ND	54	
75-15-0	Carbon Disulfide	ND	54	
56-23-5	Carbon tetrachloride	ND	54	
108-90-7	Chlorobenzene	ND	54	
75-00-3	Chloroethane	ND	54	
67-66-3	Chloroform	ND	54	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-110_1-2	Lab Sample ID:	AB34956
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	10.368 grams	Extract Dilution:	50
Wet Weight Extracted:	11.520 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	54	
124-48-1	Dibromochloromethane	ND	54	
74-95-3	Dibromomethane	ND	54	
75-71-8	Dichlorodifluoromethane	ND	54	
60-29-7	Ethyl Ether	ND	54	
100-41-4	Ethylbenzene	ND	54	
87-68-3	Hexachlorobutadiene	ND	54	
98-82-8	Isopropylbenzene	ND	54	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	54	
75-09-2	Methylene Chloride	ND	54	
104-51-8	N-Butylbenzene	ND	54	
103-65-1	N-Propylbenzene	ND	54	
91-20-3	Naphthalene	ND	54	
95-47-6	Ortho Xylene	ND	54	
99-87-6	Para-Isopropyltoluene	ND	54	
135-98-8	Sec-Butylbenzene	ND	54	
100-42-5	Styrene	ND	54	
98-06-6	Tert-Butylbenzene	ND	54	
127-18-4	Tetrachloroethylene	ND	54	
109-99-9	Tetrahydrofuran	ND	54	
108-88-3	Toluene	ND	54	
156-60-5	Trans-1,2-Dichloroethylene	ND	54	
79-01-6	Trichloroethylene	ND	54	
75-69-4	Trichlorofluoromethane	ND	54	
108-05-4	Vinyl Acetate	ND	54	
75-01-4	Vinyl Chloride	ND	54	
10061-01-5	c-1,3-dichloropropene	ND	54	
156-59-2	cis-1,2-Dichloroethylene	ND	54	
10061-02-6	t-1,3-Dichloropropene	ND	54	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	91	78 - 111
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	100	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-116_0-.5	Lab Sample ID:	AB34957
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	83%
Dry Weight Extracted:	10.236 grams	Extract Dilution:	50
Wet Weight Extracted:	12.333 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	59	
71-55-6	1,1,1-Trichloroethane	ND	59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	59	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	59	
79-00-5	1,1,2-Trichloroethane	ND	59	
75-35-4	1,1-Dichloroethylene	ND	59	
563-58-6	1,1-Dichloropropene	ND	59	
75-34-3	1,1-dichloroethane	ND	59	
87-61-6	1,2,3-Trichlorobenzene	ND	59	
96-18-4	1,2,3-Trichloropropane	ND	59	
120-82-1	1,2,4-Trichlorobenzene	ND	59	
95-63-6	1,2,4-Trimethylbenzene	ND	59	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	59	
106-93-4	1,2-Dibromoethane	ND	59	
95-50-1	1,2-Dichlorobenzene	ND	59	
107-06-2	1,2-Dichloroethane	ND	59	
78-87-5	1,2-Dichloropropane	ND	59	
108-67-8	1,3,5-Trimethylbenzene	ND	59	
541-73-1	1,3-Dichlorobenzene	ND	59	
142-28-9	1,3-Dichloropropane	ND	59	
106-46-7	1,4-Dichlorobenzene	ND	59	
594-20-7	2,2-Dichloropropane	ND	59	
78-93-3	2-Butanone (MEK)	ND	59	
95-49-8	2-Chlorotoluene	ND	59	
591-78-6	2-Hexanone	ND	59	
67-64-1	2-Propanone (acetone)	ND	59	
106-43-4	4-Chlorotoluene	ND	59	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	59	
107-13-1	Acrylonitrile	ND	59	
71-43-2	Benzene	ND	59	
108-86-1	Bromobenzene	ND	59	
74-97-5	Bromochloromethane	ND	59	
75-27-4	Bromodichloromethane	ND	59	
75-25-2	Bromoform	ND	59	
74-83-9	Bromomethane	ND	59	
75-15-0	Carbon Disulfide	ND	59	
56-23-5	Carbon tetrachloride	ND	59	
108-90-7	Chlorobenzene	ND	59	
75-00-3	Chloroethane	ND	59	
67-66-3	Chloroform	ND	59	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-116_0-.5	Lab Sample ID:	AB34957
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	83%
Dry Weight Extracted:	10.236 grams	Extract Dilution:	50
Wet Weight Extracted:	12.333 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	59	
124-48-1	Dibromochloromethane	ND	59	
74-95-3	Dibromomethane	ND	59	
75-71-8	Dichlorodifluoromethane	ND	59	
60-29-7	Ethyl Ether	ND	59	
100-41-4	Ethylbenzene	ND	59	
87-68-3	Hexachlorobutadiene	ND	59	
98-82-8	Isopropylbenzene	ND	59	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	59	
75-09-2	Methylene Chloride	ND	59	
104-51-8	N-Butylbenzene	ND	59	
103-65-1	N-Propylbenzene	ND	59	
91-20-3	Naphthalene	ND	59	
95-47-6	Ortho Xylene	ND	59	
99-87-6	Para-Isopropyltoluene	ND	59	
135-98-8	Sec-Butylbenzene	ND	59	
100-42-5	Styrene	ND	59	
98-06-6	Tert-Butylbenzene	ND	59	
127-18-4	Tetrachloroethylene	ND	59	
109-99-9	Tetrahydrofuran	ND	59	
108-88-3	Toluene	ND	59	
156-60-5	Trans-1,2-Dichloroethylene	ND	59	
79-01-6	Trichloroethylene	ND	59	
75-69-4	Trichlorofluoromethane	ND	59	
108-05-4	Vinyl Acetate	ND	59	
75-01-4	Vinyl Chloride	ND	59	
10061-01-5	c-1,3-dichloropropene	ND	59	
156-59-2	cis-1,2-Dichloroethylene	ND	59	
10061-02-6	t-1,3-Dichloropropene	ND	59	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	N/A
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	N/A
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	94	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34957 - AB34968, and AB34976.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-116_1-2	Lab Sample ID:	AB34958
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	81%
Dry Weight Extracted:	9.673 grams	Extract Dilution:	50
Wet Weight Extracted:	11.942 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	63	
71-55-6	1,1,1-Trichloroethane	ND	63	
79-34-5	1,1,2,2-Tetrachloroethane	ND	63	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	63	
79-00-5	1,1,2-Trichloroethane	ND	63	
75-35-4	1,1-Dichloroethylene	ND	63	
563-58-6	1,1-Dichloropropene	ND	63	
75-34-3	1,1-dichloroethane	ND	63	
87-61-6	1,2,3-Trichlorobenzene	ND	63	
96-18-4	1,2,3-Trichloropropane	ND	63	
120-82-1	1,2,4-Trichlorobenzene	ND	63	
95-63-6	1,2,4-Trimethylbenzene	ND	63	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	63	
106-93-4	1,2-Dibromoethane	ND	63	
95-50-1	1,2-Dichlorobenzene	ND	63	
107-06-2	1,2-Dichloroethane	ND	63	
78-87-5	1,2-Dichloropropane	ND	63	
108-67-8	1,3,5-Trimethylbenzene	ND	63	
541-73-1	1,3-Dichlorobenzene	ND	63	
142-28-9	1,3-Dichloropropane	ND	63	
106-46-7	1,4-Dichlorobenzene	ND	63	
594-20-7	2,2-Dichloropropane	ND	63	
78-93-3	2-Butanone (MEK)	ND	63	
95-49-8	2-Chlorotoluene	ND	63	
591-78-6	2-Hexanone	ND	63	
67-64-1	2-Propanone (acetone)	ND	63	
106-43-4	4-Chlorotoluene	ND	63	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	63	
107-13-1	Acrylonitrile	ND	63	
71-43-2	Benzene	ND	63	
108-86-1	Bromobenzene	ND	63	
74-97-5	Bromochloromethane	ND	63	
75-27-4	Bromodichloromethane	ND	63	
75-25-2	Bromoform	ND	63	
74-83-9	Bromomethane	ND	63	
75-15-0	Carbon Disulfide	ND	63	
56-23-5	Carbon tetrachloride	ND	63	
108-90-7	Chlorobenzene	ND	63	
75-00-3	Chloroethane	ND	63	
67-66-3	Chloroform	ND	63	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-116_1-2	Lab Sample ID:	AB34958
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	81%
Dry Weight Extracted:	9.673 grams	Extract Dilution:	50
Wet Weight Extracted:	11.942 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	63	
124-48-1	Dibromochloromethane	ND	63	
74-95-3	Dibromomethane	ND	63	
75-71-8	Dichlorodifluoromethane	ND	63	
60-29-7	Ethyl Ether	ND	63	
100-41-4	Ethylbenzene	ND	63	
87-68-3	Hexachlorobutadiene	ND	63	
98-82-8	Isopropylbenzene	ND	63	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	63	
75-09-2	Methylene Chloride	ND	63	
104-51-8	N-Butylbenzene	ND	63	
103-65-1	N-Propylbenzene	ND	63	
91-20-3	Naphthalene	ND	63	
95-47-6	Ortho Xylene	ND	63	
99-87-6	Para-Isopropyltoluene	ND	63	
135-98-8	Sec-Butylbenzene	ND	63	
100-42-5	Styrene	ND	63	
98-06-6	Tert-Butylbenzene	ND	63	
127-18-4	Tetrachloroethylene	ND	63	
109-99-9	Tetrahydrofuran	ND	63	
108-88-3	Toluene	ND	63	
156-60-5	Trans-1,2-Dichloroethylene	ND	63	
79-01-6	Trichloroethylene	ND	63	
75-69-4	Trichlorofluoromethane	ND	63	
108-05-4	Vinyl Acetate	ND	63	
75-01-4	Vinyl Chloride	ND	63	
10061-01-5	c-1,3-dichloropropene	ND	63	
156-59-2	cis-1,2-Dichloroethylene	ND	63	
10061-02-6	t-1,3-Dichloropropene	ND	63	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	93	78 - 111
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-122_0-.5	Lab Sample ID:	AB34959
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	10.104 grams	Extract Dilution:	50
Wet Weight Extracted:	11.887 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	58	
71-55-6	1,1,1-Trichloroethane	ND	58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	58	
79-00-5	1,1,2-Trichloroethane	ND	58	
75-35-4	1,1-Dichloroethylene	ND	58	
563-58-6	1,1-Dichloropropene	ND	58	
75-34-3	1,1-dichloroethane	ND	58	
87-61-6	1,2,3-Trichlorobenzene	ND	58	
96-18-4	1,2,3-Trichloropropane	ND	58	
120-82-1	1,2,4-Trichlorobenzene	ND	58	
95-63-6	1,2,4-Trimethylbenzene	ND	58	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	58	
106-93-4	1,2-Dibromoethane	ND	58	
95-50-1	1,2-Dichlorobenzene	ND	58	
107-06-2	1,2-Dichloroethane	ND	58	
78-87-5	1,2-Dichloropropane	ND	58	
108-67-8	1,3,5-Trimethylbenzene	ND	58	
541-73-1	1,3-Dichlorobenzene	ND	58	
142-28-9	1,3-Dichloropropane	ND	58	
106-46-7	1,4-Dichlorobenzene	ND	58	
594-20-7	2,2-Dichloropropane	ND	58	
78-93-3	2-Butanone (MEK)	ND	58	
95-49-8	2-Chlorotoluene	ND	58	
591-78-6	2-Hexanone	ND	58	
67-64-1	2-Propanone (acetone)	ND	58	
106-43-4	4-Chlorotoluene	ND	58	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	58	
107-13-1	Acrylonitrile	ND	58	
71-43-2	Benzene	ND	58	
108-86-1	Bromobenzene	ND	58	
74-97-5	Bromochloromethane	ND	58	
75-27-4	Bromodichloromethane	ND	58	
75-25-2	Bromoform	ND	58	
74-83-9	Bromomethane	ND	58	
75-15-0	Carbon Disulfide	ND	58	
56-23-5	Carbon tetrachloride	ND	58	
108-90-7	Chlorobenzene	ND	58	
75-00-3	Chloroethane	ND	58	
67-66-3	Chloroform	ND	58	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-122_0-.5	Lab Sample ID:	AB34959
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	10.104 grams	Extract Dilution:	50
Wet Weight Extracted:	11.887 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	58	
124-48-1	Dibromochloromethane	ND	58	
74-95-3	Dibromomethane	ND	58	
75-71-8	Dichlorodifluoromethane	ND	58	
60-29-7	Ethyl Ether	ND	58	
100-41-4	Ethylbenzene	ND	58	
87-68-3	Hexachlorobutadiene	ND	58	
98-82-8	Isopropylbenzene	ND	58	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	58	
75-09-2	Methylene Chloride	ND	58	
104-51-8	N-Butylbenzene	ND	58	
103-65-1	N-Propylbenzene	ND	58	
91-20-3	Naphthalene	ND	58	
95-47-6	Ortho Xylene	ND	58	
99-87-6	Para-Isopropyltoluene	ND	58	
135-98-8	Sec-Butylbenzene	ND	58	
100-42-5	Styrene	ND	58	
98-06-6	Tert-Butylbenzene	ND	58	
127-18-4	Tetrachloroethylene	ND	58	
109-99-9	Tetrahydrofuran	ND	58	
108-88-3	Toluene	ND	58	
156-60-5	Trans-1,2-Dichloroethylene	ND	58	
79-01-6	Trichloroethylene	ND	58	
75-69-4	Trichlorofluoromethane	ND	58	
108-05-4	Vinyl Acetate	ND	58	
75-01-4	Vinyl Chloride	ND	58	
10061-01-5	c-1,3-dichloropropene	ND	58	
156-59-2	cis-1,2-Dichloroethylene	ND	58	
10061-02-6	t-1,3-Dichloropropene	ND	58	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	98	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-137_0-.5	Lab Sample ID:	AB34960
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	10.707 grams	Extract Dilution:	50
Wet Weight Extracted:	12.597 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	56	
71-55-6	1,1,1-Trichloroethane	ND	56	
79-34-5	1,1,2,2-Tetrachloroethane	ND	56	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	56	
79-00-5	1,1,2-Trichloroethane	ND	56	
75-35-4	1,1-Dichloroethylene	ND	56	
563-58-6	1,1-Dichloropropene	ND	56	
75-34-3	1,1-dichloroethane	ND	56	
87-61-6	1,2,3-Trichlorobenzene	ND	56	
96-18-4	1,2,3-Trichloropropane	ND	56	
120-82-1	1,2,4-Trichlorobenzene	ND	56	
95-63-6	1,2,4-Trimethylbenzene	ND	56	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	56	
106-93-4	1,2-Dibromoethane	ND	56	
95-50-1	1,2-Dichlorobenzene	ND	56	
107-06-2	1,2-Dichloroethane	ND	56	
78-87-5	1,2-Dichloropropane	ND	56	
108-67-8	1,3,5-Trimethylbenzene	ND	56	
541-73-1	1,3-Dichlorobenzene	ND	56	
142-28-9	1,3-Dichloropropane	ND	56	
106-46-7	1,4-Dichlorobenzene	ND	56	
594-20-7	2,2-Dichloropropane	ND	56	
78-93-3	2-Butanone (MEK)	ND	56	
95-49-8	2-Chlorotoluene	ND	56	
591-78-6	2-Hexanone	ND	56	
67-64-1	2-Propanone (acetone)	ND	56	
106-43-4	4-Chlorotoluene	ND	56	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	56	
107-13-1	Acrylonitrile	ND	56	
71-43-2	Benzene	ND	56	
108-86-1	Bromobenzene	ND	56	
74-97-5	Bromochloromethane	ND	56	
75-27-4	Bromodichloromethane	ND	56	
75-25-2	Bromoform	ND	56	
74-83-9	Bromomethane	ND	56	
75-15-0	Carbon Disulfide	ND	56	
56-23-5	Carbon tetrachloride	ND	56	
108-90-7	Chlorobenzene	ND	56	
75-00-3	Chloroethane	ND	56	
67-66-3	Chloroform	ND	56	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-137_0-.5	Lab Sample ID:	AB34960
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	10.707 grams	Extract Dilution:	50
Wet Weight Extracted:	12.597 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	56	
124-48-1	Dibromochloromethane	ND	56	
74-95-3	Dibromomethane	ND	56	
75-71-8	Dichlorodifluoromethane	ND	56	
60-29-7	Ethyl Ether	ND	56	
100-41-4	Ethylbenzene	ND	56	
87-68-3	Hexachlorobutadiene	ND	56	
98-82-8	Isopropylbenzene	ND	56	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	56	
75-09-2	Methylene Chloride	ND	56	
104-51-8	N-Butylbenzene	ND	56	
103-65-1	N-Propylbenzene	ND	56	
91-20-3	Naphthalene	ND	56	
95-47-6	Ortho Xylene	ND	56	
99-87-6	Para-Isopropyltoluene	ND	56	
135-98-8	Sec-Butylbenzene	ND	56	
100-42-5	Styrene	ND	56	
98-06-6	Tert-Butylbenzene	ND	56	
127-18-4	Tetrachloroethylene	ND	56	
109-99-9	Tetrahydrofuran	ND	56	
108-88-3	Toluene	ND	56	
156-60-5	Trans-1,2-Dichloroethylene	ND	56	
79-01-6	Trichloroethylene	ND	56	
75-69-4	Trichlorofluoromethane	ND	56	
108-05-4	Vinyl Acetate	ND	56	
75-01-4	Vinyl Chloride	ND	56	
10061-01-5	c-1,3-dichloropropene	ND	56	
156-59-2	cis-1,2-Dichloroethylene	ND	56	
10061-02-6	t-1,3-Dichloropropene	ND	56	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	93	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-137_1-2	Lab Sample ID:	AB34961
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	92%
Dry Weight Extracted:	9.821 grams	Extract Dilution:	50
Wet Weight Extracted:	10.675 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	55	
71-55-6	1,1,1-Trichloroethane	ND	55	
79-34-5	1,1,2,2-Tetrachloroethane	ND	55	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	55	
79-00-5	1,1,2-Trichloroethane	ND	55	
75-35-4	1,1-Dichloroethylene	ND	55	
563-58-6	1,1-Dichloropropene	ND	55	
75-34-3	1,1-dichloroethane	ND	55	
87-61-6	1,2,3-Trichlorobenzene	ND	55	
96-18-4	1,2,3-Trichloropropane	ND	55	
120-82-1	1,2,4-Trichlorobenzene	ND	55	
95-63-6	1,2,4-Trimethylbenzene	ND	55	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	55	
106-93-4	1,2-Dibromoethane	ND	55	
95-50-1	1,2-Dichlorobenzene	ND	55	
107-06-2	1,2-Dichloroethane	ND	55	
78-87-5	1,2-Dichloropropane	ND	55	
108-67-8	1,3,5-Trimethylbenzene	ND	55	
541-73-1	1,3-Dichlorobenzene	ND	55	
142-28-9	1,3-Dichloropropane	ND	55	
106-46-7	1,4-Dichlorobenzene	ND	55	
594-20-7	2,2-Dichloropropane	ND	55	
78-93-3	2-Butanone (MEK)	ND	55	
95-49-8	2-Chlorotoluene	ND	55	
591-78-6	2-Hexanone	ND	55	
67-64-1	2-Propanone (acetone)	ND	55	
106-43-4	4-Chlorotoluene	ND	55	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	55	
107-13-1	Acrylonitrile	ND	55	
71-43-2	Benzene	ND	55	
108-86-1	Bromobenzene	ND	55	
74-97-5	Bromochloromethane	ND	55	
75-27-4	Bromodichloromethane	ND	55	
75-25-2	Bromoform	ND	55	
74-83-9	Bromomethane	ND	55	
75-15-0	Carbon Disulfide	ND	55	
56-23-5	Carbon tetrachloride	ND	55	
108-90-7	Chlorobenzene	ND	55	
75-00-3	Chloroethane	ND	55	
67-66-3	Chloroform	ND	55	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-137_1-2	Lab Sample ID:	AB34961
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	92%
Dry Weight Extracted:	9.821 grams	Extract Dilution:	50
Wet Weight Extracted:	10.675 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	55	
124-48-1	Dibromochloromethane	ND	55	
74-95-3	Dibromomethane	ND	55	
75-71-8	Dichlorodifluoromethane	ND	55	
60-29-7	Ethyl Ether	ND	55	
100-41-4	Ethylbenzene	ND	55	
87-68-3	Hexachlorobutadiene	ND	55	
98-82-8	Isopropylbenzene	ND	55	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	55	
75-09-2	Methylene Chloride	ND	55	
104-51-8	N-Butylbenzene	ND	55	
103-65-1	N-Propylbenzene	ND	55	
91-20-3	Naphthalene	ND	55	
95-47-6	Ortho Xylene	ND	55	
99-87-6	Para-Isopropyltoluene	ND	55	
135-98-8	Sec-Butylbenzene	ND	55	
100-42-5	Styrene	ND	55	
98-06-6	Tert-Butylbenzene	ND	55	
127-18-4	Tetrachloroethylene	ND	55	
109-99-9	Tetrahydrofuran	ND	55	
108-88-3	Toluene	ND	55	
156-60-5	Trans-1,2-Dichloroethylene	ND	55	
79-01-6	Trichloroethylene	ND	55	
75-69-4	Trichlorofluoromethane	ND	55	
108-05-4	Vinyl Acetate	ND	55	
75-01-4	Vinyl Chloride	ND	55	
10061-01-5	c-1,3-dichloropropene	ND	55	
156-59-2	cis-1,2-Dichloroethylene	ND	55	
10061-02-6	t-1,3-Dichloropropene	ND	55	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	98	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-138_1-2	Lab Sample ID:	AB34962
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	74%
Dry Weight Extracted:	7.507 grams	Extract Dilution:	50
Wet Weight Extracted:	10.144 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	84	
71-55-6	1,1,1-Trichloroethane	ND	84	
79-34-5	1,1,2,2-Tetrachloroethane	ND	84	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	84	
79-00-5	1,1,2-Trichloroethane	ND	84	
75-35-4	1,1-Dichloroethylene	ND	84	
563-58-6	1,1-Dichloropropene	ND	84	
75-34-3	1,1-dichloroethane	ND	84	
87-61-6	1,2,3-Trichlorobenzene	ND	84	
96-18-4	1,2,3-Trichloropropane	ND	84	
120-82-1	1,2,4-Trichlorobenzene	ND	84	
95-63-6	1,2,4-Trimethylbenzene	ND	84	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	84	
106-93-4	1,2-Dibromoethane	ND	84	
95-50-1	1,2-Dichlorobenzene	ND	84	
107-06-2	1,2-Dichloroethane	ND	84	
78-87-5	1,2-Dichloropropane	ND	84	
108-67-8	1,3,5-Trimethylbenzene	ND	84	
541-73-1	1,3-Dichlorobenzene	ND	84	
142-28-9	1,3-Dichloropropane	ND	84	
106-46-7	1,4-Dichlorobenzene	ND	84	
594-20-7	2,2-Dichloropropane	ND	84	
78-93-3	2-Butanone (MEK)	ND	84	
95-49-8	2-Chlorotoluene	ND	84	
591-78-6	2-Hexanone	ND	84	
67-64-1	2-Propanone (acetone)	ND	84	
106-43-4	4-Chlorotoluene	ND	84	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	84	
107-13-1	Acrylonitrile	ND	84	
71-43-2	Benzene	ND	84	
108-86-1	Bromobenzene	ND	84	
74-97-5	Bromochloromethane	ND	84	
75-27-4	Bromodichloromethane	ND	84	
75-25-2	Bromoform	ND	84	
74-83-9	Bromomethane	ND	84	
75-15-0	Carbon Disulfide	ND	84	
56-23-5	Carbon tetrachloride	ND	84	
108-90-7	Chlorobenzene	ND	84	
75-00-3	Chloroethane	ND	84	
67-66-3	Chloroform	ND	84	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-138_1-2	Lab Sample ID:	AB34962
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	74%
Dry Weight Extracted:	7.507 grams	Extract Dilution:	50
Wet Weight Extracted:	10.144 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	84	
124-48-1	Dibromochloromethane	ND	84	
74-95-3	Dibromomethane	ND	84	
75-71-8	Dichlorodifluoromethane	ND	84	
60-29-7	Ethyl Ether	ND	84	
100-41-4	Ethylbenzene	ND	84	
87-68-3	Hexachlorobutadiene	ND	84	
98-82-8	Isopropylbenzene	ND	84	
108-38-3/106-42-	M/P Xylene	ND	170	
1634-04-4	Methyl-t-Butyl Ether	ND	84	
75-09-2	Methylene Chloride	ND	84	
104-51-8	N-Butylbenzene	ND	84	
103-65-1	N-Propylbenzene	ND	84	
91-20-3	Naphthalene	ND	84	
95-47-6	Ortho Xylene	ND	84	
99-87-6	Para-Isopropyltoluene	ND	84	
135-98-8	Sec-Butylbenzene	ND	84	
100-42-5	Styrene	ND	84	
98-06-6	Tert-Butylbenzene	ND	84	
127-18-4	Tetrachloroethylene	ND	84	
109-99-9	Tetrahydrofuran	ND	84	
108-88-3	Toluene	ND	84	
156-60-5	Trans-1,2-Dichloroethylene	ND	84	
79-01-6	Trichloroethylene	ND	84	
75-69-4	Trichlorofluoromethane	ND	84	
108-05-4	Vinyl Acetate	ND	84	
75-01-4	Vinyl Chloride	ND	84	
10061-01-5	c-1,3-dichloropropene	ND	84	
156-59-2	cis-1,2-Dichloroethylene	ND	84	
10061-02-6	t-1,3-Dichloropropene	ND	84	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	98	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-140_0-.5	Lab Sample ID:	AB34963
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	84%
Dry Weight Extracted:	8.555 grams	Extract Dilution:	50
Wet Weight Extracted:	10.184 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	68	
71-55-6	1,1,1-Trichloroethane	ND	68	
79-34-5	1,1,2,2-Tetrachloroethane	ND	68	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	68	
79-00-5	1,1,2-Trichloroethane	ND	68	
75-35-4	1,1-Dichloroethylene	ND	68	
563-58-6	1,1-Dichloropropene	ND	68	
75-34-3	1,1-dichloroethane	ND	68	
87-61-6	1,2,3-Trichlorobenzene	ND	68	
96-18-4	1,2,3-Trichloropropane	ND	68	
120-82-1	1,2,4-Trichlorobenzene	ND	68	
95-63-6	1,2,4-Trimethylbenzene	ND	68	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	68	
106-93-4	1,2-Dibromoethane	ND	68	
95-50-1	1,2-Dichlorobenzene	ND	68	
107-06-2	1,2-Dichloroethane	ND	68	
78-87-5	1,2-Dichloropropane	ND	68	
108-67-8	1,3,5-Trimethylbenzene	ND	68	
541-73-1	1,3-Dichlorobenzene	ND	68	
142-28-9	1,3-Dichloropropane	ND	68	
106-46-7	1,4-Dichlorobenzene	ND	68	
594-20-7	2,2-Dichloropropane	ND	68	
78-93-3	2-Butanone (MEK)	ND	68	
95-49-8	2-Chlorotoluene	ND	68	
591-78-6	2-Hexanone	ND	68	
67-64-1	2-Propanone (acetone)	ND	68	
106-43-4	4-Chlorotoluene	ND	68	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	68	
107-13-1	Acrylonitrile	ND	68	
71-43-2	Benzene	ND	68	
108-86-1	Bromobenzene	ND	68	
74-97-5	Bromochloromethane	ND	68	
75-27-4	Bromodichloromethane	ND	68	
75-25-2	Bromoform	ND	68	
74-83-9	Bromomethane	ND	68	
75-15-0	Carbon Disulfide	ND	68	
56-23-5	Carbon tetrachloride	ND	68	
108-90-7	Chlorobenzene	ND	68	
75-00-3	Chloroethane	ND	68	
67-66-3	Chloroform	ND	68	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-140_0-.5	Lab Sample ID:	AB34963
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	84%
Dry Weight Extracted:	8.555 grams	Extract Dilution:	50
Wet Weight Extracted:	10.184 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	68	
124-48-1	Dibromochloromethane	ND	68	
74-95-3	Dibromomethane	ND	68	
75-71-8	Dichlorodifluoromethane	ND	68	
60-29-7	Ethyl Ether	ND	68	
100-41-4	Ethylbenzene	ND	68	
87-68-3	Hexachlorobutadiene	ND	68	
98-82-8	Isopropylbenzene	ND	68	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	68	
75-09-2	Methylene Chloride	ND	68	
104-51-8	N-Butylbenzene	ND	68	
103-65-1	N-Propylbenzene	ND	68	
91-20-3	Naphthalene	ND	68	
95-47-6	Ortho Xylene	ND	68	
99-87-6	Para-Isopropyltoluene	ND	68	
135-98-8	Sec-Butylbenzene	ND	68	
100-42-5	Styrene	ND	68	
98-06-6	Tert-Butylbenzene	ND	68	
127-18-4	Tetrachloroethylene	ND	68	
109-99-9	Tetrahydrofuran	ND	68	
108-88-3	Toluene	ND	68	
156-60-5	Trans-1,2-Dichloroethylene	ND	68	
79-01-6	Trichloroethylene	ND	68	
75-69-4	Trichlorofluoromethane	ND	68	
108-05-4	Vinyl Acetate	ND	68	
75-01-4	Vinyl Chloride	ND	68	
10061-01-5	c-1,3-dichloropropene	ND	68	
156-59-2	cis-1,2-Dichloroethylene	ND	68	
10061-02-6	t-1,3-Dichloropropene	ND	68	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-140_1-2	Lab Sample ID:	AB34964
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	9.182 grams	Extract Dilution:	50
Wet Weight Extracted:	10.554 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	
71-55-6	1,1,1-Trichloroethane	ND	62	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	62	
79-00-5	1,1,2-Trichloroethane	ND	62	
75-35-4	1,1-Dichloroethylene	ND	62	
563-58-6	1,1-Dichloropropene	ND	62	
75-34-3	1,1-dichloroethane	ND	62	
87-61-6	1,2,3-Trichlorobenzene	ND	62	
96-18-4	1,2,3-Trichloropropane	ND	62	
120-82-1	1,2,4-Trichlorobenzene	ND	62	
95-63-6	1,2,4-Trimethylbenzene	ND	62	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	62	
106-93-4	1,2-Dibromoethane	ND	62	
95-50-1	1,2-Dichlorobenzene	ND	62	
107-06-2	1,2-Dichloroethane	ND	62	
78-87-5	1,2-Dichloropropane	ND	62	
108-67-8	1,3,5-Trimethylbenzene	ND	62	
541-73-1	1,3-Dichlorobenzene	ND	62	
142-28-9	1,3-Dichloropropane	ND	62	
106-46-7	1,4-Dichlorobenzene	ND	62	
594-20-7	2,2-Dichloropropane	ND	62	
78-93-3	2-Butanone (MEK)	ND	62	
95-49-8	2-Chlorotoluene	ND	62	
591-78-6	2-Hexanone	ND	62	
67-64-1	2-Propanone (acetone)	ND	62	
106-43-4	4-Chlorotoluene	ND	62	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	62	
107-13-1	Acrylonitrile	ND	62	
71-43-2	Benzene	ND	62	
108-86-1	Bromobenzene	ND	62	
74-97-5	Bromochloromethane	ND	62	
75-27-4	Bromodichloromethane	ND	62	
75-25-2	Bromoform	ND	62	
74-83-9	Bromomethane	ND	62	
75-15-0	Carbon Disulfide	ND	62	
56-23-5	Carbon tetrachloride	ND	62	
108-90-7	Chlorobenzene	ND	62	
75-00-3	Chloroethane	ND	62	
67-66-3	Chloroform	ND	62	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-140_1-2	Lab Sample ID:	AB34964
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	9.182 grams	Extract Dilution:	50
Wet Weight Extracted:	10.554 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	62	
124-48-1	Dibromochloromethane	ND	62	
74-95-3	Dibromomethane	ND	62	
75-71-8	Dichlorodifluoromethane	ND	62	
60-29-7	Ethyl Ether	ND	62	
100-41-4	Ethylbenzene	ND	62	
87-68-3	Hexachlorobutadiene	ND	62	
98-82-8	Isopropylbenzene	ND	62	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	62	
75-09-2	Methylene Chloride	ND	62	
104-51-8	N-Butylbenzene	ND	62	
103-65-1	N-Propylbenzene	ND	62	
91-20-3	Naphthalene	ND	62	
95-47-6	Ortho Xylene	ND	62	
99-87-6	Para-Isopropyltoluene	ND	62	
135-98-8	Sec-Butylbenzene	ND	62	
100-42-5	Styrene	ND	62	
98-06-6	Tert-Butylbenzene	ND	62	
127-18-4	Tetrachloroethylene	ND	62	
109-99-9	Tetrahydrofuran	ND	62	
108-88-3	Toluene	ND	62	
156-60-5	Trans-1,2-Dichloroethylene	ND	62	
79-01-6	Trichloroethylene	ND	62	
75-69-4	Trichlorofluoromethane	ND	62	
108-05-4	Vinyl Acetate	ND	62	
75-01-4	Vinyl Chloride	ND	62	
10061-01-5	c-1,3-dichloropropene	ND	62	
156-59-2	cis-1,2-Dichloroethylene	ND	62	
10061-02-6	t-1,3-Dichloropropene	ND	62	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-145_0-.5	Lab Sample ID:	AB34965
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	82%
Dry Weight Extracted:	8.581 grams	Extract Dilution:	50
Wet Weight Extracted:	10.465 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	
71-55-6	1,1,1-Trichloroethane	ND	69	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	69	
79-00-5	1,1,2-Trichloroethane	ND	69	
75-35-4	1,1-Dichloroethylene	ND	69	
563-58-6	1,1-Dichloropropene	ND	69	
75-34-3	1,1-dichloroethane	ND	69	
87-61-6	1,2,3-Trichlorobenzene	ND	69	
96-18-4	1,2,3-Trichloropropane	ND	69	
120-82-1	1,2,4-Trichlorobenzene	ND	69	
95-63-6	1,2,4-Trimethylbenzene	ND	69	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	69	
106-93-4	1,2-Dibromoethane	ND	69	
95-50-1	1,2-Dichlorobenzene	ND	69	
107-06-2	1,2-Dichloroethane	ND	69	
78-87-5	1,2-Dichloropropane	ND	69	
108-67-8	1,3,5-Trimethylbenzene	ND	69	
541-73-1	1,3-Dichlorobenzene	ND	69	
142-28-9	1,3-Dichloropropane	ND	69	
106-46-7	1,4-Dichlorobenzene	ND	69	
594-20-7	2,2-Dichloropropane	ND	69	
78-93-3	2-Butanone (MEK)	ND	69	
95-49-8	2-Chlorotoluene	ND	69	
591-78-6	2-Hexanone	ND	69	
67-64-1	2-Propanone (acetone)	ND	69	
106-43-4	4-Chlorotoluene	ND	69	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	69	
107-13-1	Acrylonitrile	ND	69	
71-43-2	Benzene	ND	69	
108-86-1	Bromobenzene	ND	69	
74-97-5	Bromochloromethane	ND	69	
75-27-4	Bromodichloromethane	ND	69	
75-25-2	Bromoform	ND	69	
74-83-9	Bromomethane	ND	69	
75-15-0	Carbon Disulfide	ND	69	
56-23-5	Carbon tetrachloride	ND	69	
108-90-7	Chlorobenzene	ND	69	
75-00-3	Chloroethane	ND	69	
67-66-3	Chloroform	ND	69	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-145_0-.5	Lab Sample ID:	AB34965
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	82%
Dry Weight Extracted:	8.581 grams	Extract Dilution:	50
Wet Weight Extracted:	10.465 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	69	
124-48-1	Dibromochloromethane	ND	69	
74-95-3	Dibromomethane	ND	69	
75-71-8	Dichlorodifluoromethane	ND	69	
60-29-7	Ethyl Ether	ND	69	
100-41-4	Ethylbenzene	ND	69	
87-68-3	Hexachlorobutadiene	ND	69	
98-82-8	Isopropylbenzene	ND	69	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	69	
75-09-2	Methylene Chloride	ND	69	
104-51-8	N-Butylbenzene	ND	69	
103-65-1	N-Propylbenzene	ND	69	
91-20-3	Naphthalene	ND	69	
95-47-6	Ortho Xylene	ND	69	
99-87-6	Para-Isopropyltoluene	ND	69	
135-98-8	Sec-Butylbenzene	ND	69	
100-42-5	Styrene	ND	69	
98-06-6	Tert-Butylbenzene	ND	69	
127-18-4	Tetrachloroethylene	ND	69	
109-99-9	Tetrahydrofuran	ND	69	
108-88-3	Toluene	ND	69	
156-60-5	Trans-1,2-Dichloroethylene	ND	69	
79-01-6	Trichloroethylene	ND	69	
75-69-4	Trichlorofluoromethane	ND	69	
108-05-4	Vinyl Acetate	ND	69	
75-01-4	Vinyl Chloride	ND	69	
10061-01-5	c-1,3-dichloropropene	ND	69	
156-59-2	cis-1,2-Dichloroethylene	ND	69	
10061-02-6	t-1,3-Dichloropropene	ND	69	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	100	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-151_0-.5	Lab Sample ID:	AB34966
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	91%
Dry Weight Extracted:	8.821 grams	Extract Dilution:	50
Wet Weight Extracted:	9.693 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	
71-55-6	1,1,1-Trichloroethane	ND	62	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	62	
79-00-5	1,1,2-Trichloroethane	ND	62	
75-35-4	1,1-Dichloroethylene	ND	62	
563-58-6	1,1-Dichloropropene	ND	62	
75-34-3	1,1-dichloroethane	ND	62	
87-61-6	1,2,3-Trichlorobenzene	ND	62	
96-18-4	1,2,3-Trichloropropane	ND	62	
120-82-1	1,2,4-Trichlorobenzene	ND	62	
95-63-6	1,2,4-Trimethylbenzene	ND	62	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	62	
106-93-4	1,2-Dibromoethane	ND	62	
95-50-1	1,2-Dichlorobenzene	ND	62	
107-06-2	1,2-Dichloroethane	ND	62	
78-87-5	1,2-Dichloropropane	ND	62	
108-67-8	1,3,5-Trimethylbenzene	ND	62	
541-73-1	1,3-Dichlorobenzene	ND	62	
142-28-9	1,3-Dichloropropane	ND	62	
106-46-7	1,4-Dichlorobenzene	ND	62	
594-20-7	2,2-Dichloropropane	ND	62	
78-93-3	2-Butanone (MEK)	ND	62	
95-49-8	2-Chlorotoluene	ND	62	
591-78-6	2-Hexanone	ND	62	
67-64-1	2-Propanone (acetone)	ND	62	
106-43-4	4-Chlorotoluene	ND	62	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	62	
107-13-1	Acrylonitrile	ND	62	
71-43-2	Benzene	ND	62	
108-86-1	Bromobenzene	ND	62	
74-97-5	Bromochloromethane	ND	62	
75-27-4	Bromodichloromethane	ND	62	
75-25-2	Bromoform	ND	62	
74-83-9	Bromomethane	ND	62	
75-15-0	Carbon Disulfide	ND	62	
56-23-5	Carbon tetrachloride	ND	62	
108-90-7	Chlorobenzene	ND	62	
75-00-3	Chloroethane	ND	62	
67-66-3	Chloroform	ND	62	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-151_0-.5	Lab Sample ID:	AB34966
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	91%
Dry Weight Extracted:	8.821 grams	Extract Dilution:	50
Wet Weight Extracted:	9.693 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	62	
124-48-1	Dibromochloromethane	ND	62	
74-95-3	Dibromomethane	ND	62	
75-71-8	Dichlorodifluoromethane	ND	62	
60-29-7	Ethyl Ether	ND	62	
100-41-4	Ethylbenzene	ND	62	
87-68-3	Hexachlorobutadiene	ND	62	
98-82-8	Isopropylbenzene	ND	62	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	62	
75-09-2	Methylene Chloride	ND	62	
104-51-8	N-Butylbenzene	ND	62	
103-65-1	N-Propylbenzene	ND	62	
91-20-3	Naphthalene	ND	62	
95-47-6	Ortho Xylene	ND	62	
99-87-6	Para-Isopropyltoluene	ND	62	
135-98-8	Sec-Butylbenzene	ND	62	
100-42-5	Styrene	ND	62	
98-06-6	Tert-Butylbenzene	ND	62	
127-18-4	Tetrachloroethylene	ND	62	
109-99-9	Tetrahydrofuran	ND	62	
108-88-3	Toluene	ND	62	
156-60-5	Trans-1,2-Dichloroethylene	ND	62	
79-01-6	Trichloroethylene	ND	62	
75-69-4	Trichlorofluoromethane	ND	62	
108-05-4	Vinyl Acetate	ND	62	
75-01-4	Vinyl Chloride	ND	62	
10061-01-5	c-1,3-dichloropropene	ND	62	
156-59-2	cis-1,2-Dichloroethylene	ND	62	
10061-02-6	t-1,3-Dichloropropene	ND	62	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	118	74 - 136
Toluene-D8	99	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-152_0-.5	Lab Sample ID:	AB34967
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	89%
Dry Weight Extracted:	8.882 grams	Extract Dilution:	50
Wet Weight Extracted:	9.980 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	
71-55-6	1,1,1-Trichloroethane	ND	62	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	62	
79-00-5	1,1,2-Trichloroethane	ND	62	
75-35-4	1,1-Dichloroethylene	ND	62	
563-58-6	1,1-Dichloropropene	ND	62	
75-34-3	1,1-dichloroethane	ND	62	
87-61-6	1,2,3-Trichlorobenzene	ND	62	
96-18-4	1,2,3-Trichloropropane	ND	62	
120-82-1	1,2,4-Trichlorobenzene	ND	62	
95-63-6	1,2,4-Trimethylbenzene	ND	62	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	62	
106-93-4	1,2-Dibromoethane	ND	62	
95-50-1	1,2-Dichlorobenzene	ND	62	
107-06-2	1,2-Dichloroethane	ND	62	
78-87-5	1,2-Dichloropropane	ND	62	
108-67-8	1,3,5-Trimethylbenzene	ND	62	
541-73-1	1,3-Dichlorobenzene	ND	62	
142-28-9	1,3-Dichloropropane	ND	62	
106-46-7	1,4-Dichlorobenzene	ND	62	
594-20-7	2,2-Dichloropropane	ND	62	
78-93-3	2-Butanone (MEK)	ND	62	
95-49-8	2-Chlorotoluene	ND	62	
591-78-6	2-Hexanone	ND	62	
67-64-1	2-Propanone (acetone)	ND	62	
106-43-4	4-Chlorotoluene	ND	62	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	62	
107-13-1	Acrylonitrile	ND	62	
71-43-2	Benzene	ND	62	
108-86-1	Bromobenzene	ND	62	
74-97-5	Bromochloromethane	ND	62	
75-27-4	Bromodichloromethane	ND	62	
75-25-2	Bromoform	ND	62	
74-83-9	Bromomethane	ND	62	
75-15-0	Carbon Disulfide	ND	62	
56-23-5	Carbon tetrachloride	ND	62	
108-90-7	Chlorobenzene	ND	62	
75-00-3	Chloroethane	ND	62	
67-66-3	Chloroform	ND	62	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-152_0-.5	Lab Sample ID:	AB34967
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	89%
Dry Weight Extracted:	8.882 grams	Extract Dilution:	50
Wet Weight Extracted:	9.980 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	62	
124-48-1	Dibromochloromethane	ND	62	
74-95-3	Dibromomethane	ND	62	
75-71-8	Dichlorodifluoromethane	ND	62	
60-29-7	Ethyl Ether	ND	62	
100-41-4	Ethylbenzene	ND	62	
87-68-3	Hexachlorobutadiene	ND	62	
98-82-8	Isopropylbenzene	ND	62	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	62	
75-09-2	Methylene Chloride	ND	62	
104-51-8	N-Butylbenzene	ND	62	
103-65-1	N-Propylbenzene	ND	62	
91-20-3	Naphthalene	ND	62	
95-47-6	Ortho Xylene	ND	62	
99-87-6	Para-Isopropyltoluene	ND	62	
135-98-8	Sec-Butylbenzene	ND	62	
100-42-5	Styrene	ND	62	
98-06-6	Tert-Butylbenzene	ND	62	
127-18-4	Tetrachloroethylene	ND	62	
109-99-9	Tetrahydrofuran	ND	62	
108-88-3	Toluene	ND	62	
156-60-5	Trans-1,2-Dichloroethylene	ND	62	
79-01-6	Trichloroethylene	ND	62	
75-69-4	Trichlorofluoromethane	ND	62	
108-05-4	Vinyl Acetate	ND	62	
75-01-4	Vinyl Chloride	ND	62	
10061-01-5	c-1,3-dichloropropene	ND	62	
156-59-2	cis-1,2-Dichloroethylene	ND	62	
10061-02-6	t-1,3-Dichloropropene	ND	62	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	90	78 - 111
1,2-Dichloroethane-D4	117	74 - 136
Toluene-D8	100	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-153_0-.5	Lab Sample ID:	AB34968
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	8.608 grams	Extract Dilution:	50
Wet Weight Extracted:	9.894 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	66	
71-55-6	1,1,1-Trichloroethane	ND	66	
79-34-5	1,1,2,2-Tetrachloroethane	ND	66	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	66	
79-00-5	1,1,2-Trichloroethane	ND	66	
75-35-4	1,1-Dichloroethylene	ND	66	
563-58-6	1,1-Dichloropropene	ND	66	
75-34-3	1,1-dichloroethane	ND	66	
87-61-6	1,2,3-Trichlorobenzene	ND	66	
96-18-4	1,2,3-Trichloropropane	ND	66	
120-82-1	1,2,4-Trichlorobenzene	ND	66	
95-63-6	1,2,4-Trimethylbenzene	ND	66	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	66	
106-93-4	1,2-Dibromoethane	ND	66	
95-50-1	1,2-Dichlorobenzene	ND	66	
107-06-2	1,2-Dichloroethane	ND	66	
78-87-5	1,2-Dichloropropane	ND	66	
108-67-8	1,3,5-Trimethylbenzene	ND	66	
541-73-1	1,3-Dichlorobenzene	ND	66	
142-28-9	1,3-Dichloropropane	ND	66	
106-46-7	1,4-Dichlorobenzene	ND	66	
594-20-7	2,2-Dichloropropane	ND	66	
78-93-3	2-Butanone (MEK)	ND	66	
95-49-8	2-Chlorotoluene	ND	66	
591-78-6	2-Hexanone	ND	66	
67-64-1	2-Propanone (acetone)	ND	66	
106-43-4	4-Chlorotoluene	ND	66	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	66	
107-13-1	Acrylonitrile	ND	66	
71-43-2	Benzene	ND	66	
108-86-1	Bromobenzene	ND	66	
74-97-5	Bromochloromethane	ND	66	
75-27-4	Bromodichloromethane	ND	66	
75-25-2	Bromoform	ND	66	
74-83-9	Bromomethane	ND	66	
75-15-0	Carbon Disulfide	ND	66	
56-23-5	Carbon tetrachloride	ND	66	
108-90-7	Chlorobenzene	ND	66	
75-00-3	Chloroethane	ND	66	
67-66-3	Chloroform	ND	66	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-153_0-.5	Lab Sample ID:	AB34968
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	8.608 grams	Extract Dilution:	50
Wet Weight Extracted:	9.894 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	66	
124-48-1	Dibromochloromethane	ND	66	
74-95-3	Dibromomethane	ND	66	
75-71-8	Dichlorodifluoromethane	ND	66	
60-29-7	Ethyl Ether	ND	66	
100-41-4	Ethylbenzene	ND	66	
87-68-3	Hexachlorobutadiene	ND	66	
98-82-8	Isopropylbenzene	ND	66	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	66	
75-09-2	Methylene Chloride	ND	66	
104-51-8	N-Butylbenzene	ND	66	
103-65-1	N-Propylbenzene	ND	66	
91-20-3	Naphthalene	ND	66	
95-47-6	Ortho Xylene	ND	66	
99-87-6	Para-Isopropyltoluene	ND	66	
135-98-8	Sec-Butylbenzene	ND	66	
100-42-5	Styrene	ND	66	
98-06-6	Tert-Butylbenzene	ND	66	
127-18-4	Tetrachloroethylene	ND	66	
109-99-9	Tetrahydrofuran	ND	66	
108-88-3	Toluene	ND	66	
156-60-5	Trans-1,2-Dichloroethylene	ND	66	
79-01-6	Trichloroethylene	ND	66	
75-69-4	Trichlorofluoromethane	ND	66	
108-05-4	Vinyl Acetate	ND	66	
75-01-4	Vinyl Chloride	ND	66	
10061-01-5	c-1,3-dichloropropene	ND	66	
156-59-2	cis-1,2-Dichloroethylene	ND	66	
10061-02-6	t-1,3-Dichloropropene	ND	66	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	100	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-122_1-2	Lab Sample ID:	AB34976
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	84%
Dry Weight Extracted:	8.529 grams	Extract Dilution:	50
Wet Weight Extracted:	10.154 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	68	
71-55-6	1,1,1-Trichloroethane	ND	68	
79-34-5	1,1,2,2-Tetrachloroethane	ND	68	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	68	
79-00-5	1,1,2-Trichloroethane	ND	68	
75-35-4	1,1-Dichloroethylene	ND	68	
563-58-6	1,1-Dichloropropene	ND	68	
75-34-3	1,1-dichloroethane	ND	68	
87-61-6	1,2,3-Trichlorobenzene	ND	68	
96-18-4	1,2,3-Trichloropropane	ND	68	
120-82-1	1,2,4-Trichlorobenzene	ND	68	
95-63-6	1,2,4-Trimethylbenzene	ND	68	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	68	
106-93-4	1,2-Dibromoethane	ND	68	
95-50-1	1,2-Dichlorobenzene	ND	68	
107-06-2	1,2-Dichloroethane	ND	68	
78-87-5	1,2-Dichloropropane	ND	68	
108-67-8	1,3,5-Trimethylbenzene	ND	68	
541-73-1	1,3-Dichlorobenzene	ND	68	
142-28-9	1,3-Dichloropropane	ND	68	
106-46-7	1,4-Dichlorobenzene	ND	68	
594-20-7	2,2-Dichloropropane	ND	68	
78-93-3	2-Butanone (MEK)	ND	68	
95-49-8	2-Chlorotoluene	ND	68	
591-78-6	2-Hexanone	ND	68	
67-64-1	2-Propanone (acetone)	ND	68	
106-43-4	4-Chlorotoluene	ND	68	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	68	
107-13-1	Acrylonitrile	ND	68	
71-43-2	Benzene	ND	68	
108-86-1	Bromobenzene	ND	68	
74-97-5	Bromochloromethane	ND	68	
75-27-4	Bromodichloromethane	ND	68	
75-25-2	Bromoform	ND	68	
74-83-9	Bromomethane	ND	68	
75-15-0	Carbon Disulfide	ND	68	
56-23-5	Carbon tetrachloride	ND	68	
108-90-7	Chlorobenzene	ND	68	
75-00-3	Chloroethane	ND	68	
67-66-3	Chloroform	ND	68	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-122_1-2	Lab Sample ID:	AB34976
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	84%
Dry Weight Extracted:	8.529 grams	Extract Dilution:	50
Wet Weight Extracted:	10.154 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	68	
124-48-1	Dibromochloromethane	ND	68	
74-95-3	Dibromomethane	ND	68	
75-71-8	Dichlorodifluoromethane	ND	68	
60-29-7	Ethyl Ether	ND	68	
100-41-4	Ethylbenzene	ND	68	
87-68-3	Hexachlorobutadiene	ND	68	
98-82-8	Isopropylbenzene	ND	68	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	68	
75-09-2	Methylene Chloride	ND	68	
104-51-8	N-Butylbenzene	ND	68	
103-65-1	N-Propylbenzene	ND	68	
91-20-3	Naphthalene	ND	68	
95-47-6	Ortho Xylene	ND	68	
99-87-6	Para-Isopropyltoluene	ND	68	
135-98-8	Sec-Butylbenzene	ND	68	
100-42-5	Styrene	ND	68	
98-06-6	Tert-Butylbenzene	ND	68	
127-18-4	Tetrachloroethylene	ND	68	
109-99-9	Tetrahydrofuran	ND	68	
108-88-3	Toluene	ND	68	
156-60-5	Trans-1,2-Dichloroethylene	ND	68	
79-01-6	Trichloroethylene	ND	68	
75-69-4	Trichlorofluoromethane	ND	68	
108-05-4	Vinyl Acetate	ND	68	
75-01-4	Vinyl Chloride	ND	68	
10061-01-5	c-1,3-dichloropropene	ND	68	
156-59-2	cis-1,2-Dichloroethylene	ND	68	
10061-02-6	t-1,3-Dichloropropene	ND	68	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	99	85 - 118

Comments:

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB34953

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,160	ND	1200	100	74 - 124
1,1,1-Trichloroethane	1,160	ND	1200	100	76 - 132
1,1,2,2-Tetrachloroethane	1,160	ND	1200	100	69 - 125
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,160	ND	1300	110	68 - 144
1,1,2-Trichloroethane	1,160	ND	1200	100	75 - 126
1,1-Dichloroethylene	1,160	ND	1100	95	65 - 140
1,1-Dichloropropene	1,160	ND	1200	100	81 - 125
1,1-dichloroethane	1,160	ND	1200	100	77 - 130
1,2,3-Trichlorobenzene	1,160	ND	1100	95	64 - 125
1,2,3-Trichloropropane	1,160	ND	1100	95	68 - 122
1,2,4-Trichlorobenzene	1,160	ND	1100	95	72 - 120
1,2,4-Trimethylbenzene	1,160	ND	1200	100	81 - 125
1,2-Dibromo-3-Chloropropane	1,160	ND	1100	95	54 - 125
1,2-Dibromoethane	1,160	ND	1200	100	73 - 124
1,2-Dichlorobenzene	1,160	ND	1100	95	81 - 116
1,2-Dichloroethane	1,160	ND	1200	100	74 - 130
1,2-Dichloropropane	1,160	ND	1100	95	78 - 120
1,3,5-Trimethylbenzene	1,160	ND	1200	100	81 - 125
1,3-Dichlorobenzene	1,160	ND	1100	95	82 - 117
1,3-Dichloropropane	1,160	ND	1200	100	76 - 123
1,4-Dichlorobenzene	1,160	ND	1100	95	80 - 116
2,2-Dichloropropane	1,160	ND	1200	100	57 - 147
2-Butanone (MEK)	1,160	ND	1300	110	41 - 151
2-Chlorotoluene	1,160	ND	1100	95	82 - 119
2-Hexanone	1,160	ND	1300	110	51 - 148
2-Propanone (acetone)	1,160	ND	1200	100	25 - 161
4-Chlorotoluene	1,160	ND	1200	100	82 - 119
4-Methyl-2-Pentanone(MIBK)	1,160	ND	1200	100	62 - 130
Acrylonitrile	1,160	ND	1300	110	67 - 130
Benzene	1,160	ND	1200	100	82 - 124
Bromobenzene	1,160	ND	1100	95	79 - 119
Bromochloromethane	1,160	ND	1200	100	79 - 125
Bromodichloromethane	1,160	ND	1100	95	71 - 126
Bromoform	1,160	ND	1100	95	56 - 119
Bromomethane	1,160	ND	1100	95	37 - 161
Carbon Disulfide	1,160	ND	1100	95	63 - 134
Carbon tetrachloride	1,160	ND	1200	100	68 - 136
Chlorobenzene	1,160	ND	1200	100	82 - 126
Chloroethane	1,160	ND	1200	100	57 - 148
Chloroform	1,160	ND	1200	100	78 - 130
Chloromethane	1,160	ND	1000	86	56 - 147
Dibromochloromethane	1,160	ND	1100	95	62 - 131
Dibromomethane	1,160	ND	1200	100	75 - 122
Dichlorodifluoromethane	1,160	ND	1000	86	59 - 131
Ethyl Ether	1,160	ND	1200	100	65 - 138
Ethylbenzene	1,160	ND	1200	100	82 - 122
Hexachlorobutadiene	1,160	ND	1100	95	70 - 130
Isopropylbenzene	1,160	ND	1200	100	82 - 125

M/P Xylene	2,320	ND	2300	99	85 - 120
Methyl-t-Butyl Ether	1,160	ND	1200	100	74 - 125
Methylene Chloride	1,160	ND	1200	100	67 - 139
N-Butylbenzene	1,160	ND	1200	100	80 - 129
N-Propylbenzene	1,160	ND	1200	100	81 - 122
Naphthalene	1,160	ND	1100	95	59 - 129
Ortho Xylene	1,160	ND	1200	100	84 - 122
Para-Isopropyltoluene	1,160	ND	1200	100	79 - 129
Sec-Butylbenzene	1,160	ND	1200	100	81 - 126
Styrene	1,160	ND	1200	100	82 - 125
Tert-Butylbenzene	1,160	ND	1200	100	81 - 126
Tetrachloroethylene	1,160	ND	1100	95	74 - 133
Tetrahydrofuran	1,160	ND	1300	110	60 - 132
Toluene	1,160	ND	1200	100	82 - 124
Trans-1,2-Dichloroethylene	1,160	ND	1200	100	79 - 127
Trichloroethylene	1,160	ND	1200	100	76 - 124
Trichlorofluoromethane	1,160	ND	1300	110	65 - 144
Vinyl Acetate	1,160	ND	1100	95	14 - 152
Vinyl Chloride	1,160	ND	1200	100	34 - 142
c-1,3-dichloropropene	1,160	ND	1200	100	68 - 133
cis-1,2-Dichloroethylene	1,160	ND	1200	100	79 - 131
t-1,3-Dichloropropene	1,160	ND	1200	100	65 - 126

Comments:

Sample ID: AB34953

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,160	1100	95	5	40
1,1,1-Trichloroethane	1,160	1200	100	0	40
1,1,2,2-Tetrachloroethane	1,160	1200	100	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,160	1300	110	0	40
1,1,2-Trichloroethane	1,160	1200	100	0	40
1,1-Dichloroethylene	1,160	1200	100	5	52
1,1-Dichloropropene	1,160	1200	100	0	40
1,1-dichloroethane	1,160	1200	100	0	40
1,2,3-Trichlorobenzene	1,160	1200	100	5	40
1,2,3-Trichloropropane	1,160	1100	95	0	40
1,2,4-Trichlorobenzene	1,160	1100	95	0	40
1,2,4-Trimethylbenzene	1,160	1100	95	5	40
1,2-Dibromo-3-Chloropropane	1,160	1100	95	0	40
1,2-Dibromoethane	1,160	1200	100	0	40
1,2-Dichlorobenzene	1,160	1100	95	0	40
1,2-Dichloroethane	1,160	1200	100	0	40
1,2-Dichloropropane	1,160	1100	95	0	40
1,3,5-Trimethylbenzene	1,160	1200	100	0	40
1,3-Dichlorobenzene	1,160	1100	95	0	40
1,3-Dichloropropane	1,160	1200	100	0	40
1,4-Dichlorobenzene	1,160	1100	95	0	40
2,2-Dichloropropane	1,160	1200	100	0	40
2-Butanone (MEK)	1,160	1200	100	10	40
2-Chlorotoluene	1,160	1100	95	0	40
2-Hexanone	1,160	1300	110	0	40
2-Propanone (acetone)	1,160	1300	110	10	40
4-Chlorotoluene	1,160	1100	95	5	40
4-Methyl-2-Pentanone(MIBK)	1,160	1200	100	0	40
Acrylonitrile	1,160	1300	110	0	40
Benzene	1,160	1200	100	0	24
Bromobenzene	1,160	1100	95	0	40
Bromochloromethane	1,160	1200	100	0	40
Bromodichloromethane	1,160	1200	100	5	40
Bromoform	1,160	1100	95	0	40
Bromomethane	1,160	1200	100	5	40
Carbon Disulfide	1,160	1100	95	0	40
Carbon tetrachloride	1,160	1200	100	0	40
Chlorobenzene	1,160	1200	100	0	34
Chloroethane	1,160	1200	100	0	40
Chloroform	1,160	1200	100	0	40
Chloromethane	1,160	1000	86	0	40
Dibromochloromethane	1,160	1200	100	5	40
Dibromomethane	1,160	1200	100	0	40
Dichlorodifluoromethane	1,160	1000	86	0	40
Ethyl Ether	1,160	1200	100	0	40
Ethylbenzene	1,160	1200	100	0	40
Hexachlorobutadiene	1,160	1100	95	0	40
Isopropylbenzene	1,160	1100	95	5	40
M/P Xylene	2,320	2300	99	0	40
Methyl-t-Butyl Ether	1,160	1200	100	0	40
Methylene Chloride	1,160	1200	100	0	40
N-Butylbenzene	1,160	1200	100	0	40
N-Propylbenzene	1,160	1200	100	0	40

Naphthalene	1,160	1100	95	0	40
Ortho Xylene	1,160	1200	100	0	40
Para-Isopropyltoluene	1,160	1200	100	0	40
Sec-Butylbenzene	1,160	1200	100	0	40
Styrene	1,160	1200	100	0	40
Tert-Butylbenzene	1,160	1200	100	0	40
Tetrachloroethylene	1,160	1100	95	0	40
Tetrahydrofuran	1,160	1300	110	0	40
Toluene	1,160	1100	95	5	33
Trans-1,2-Dichloroethylene	1,160	1200	100	0	40
Trichloroethylene	1,160	1100	95	5	27
Trichlorofluoromethane	1,160	1200	100	10	40
Vinyl Acetate	1,160	1100	95	0	40
Vinyl Chloride	1,160	1100	95	5	40
c-1,3-dichloropropene	1,160	1200	100	0	40
cis-1,2-Dichloroethylene	1,160	1200	100	0	40
t-1,3-Dichloropropene	1,160	1200	100	0	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34953

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	ND	40
1,1,2,2-Tetrachloroethane	ND	ND	ND	40
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	40
1,1,2-Trichloroethane	ND	ND	ND	40
1,1-Dichloroethylene	ND	ND	ND	40
1,1-Dichloropropene	ND	ND	ND	40
1,1-dichloroethane	ND	ND	ND	40
1,2,3-Trichlorobenzene	ND	ND	ND	40
1,2,3-Trichloropropane	ND	ND	ND	40
1,2,4-Trichlorobenzene	ND	ND	ND	40
1,2,4-Trimethylbenzene	ND	ND	ND	40
1,2-Dibromo-3-Chloropropane	ND	ND	ND	40
1,2-Dibromoethane	ND	ND	ND	40
1,2-Dichlorobenzene	ND	ND	ND	40
1,2-Dichloroethane	ND	ND	ND	40
1,2-Dichloropropane	ND	ND	ND	40
1,3,5-Trimethylbenzene	ND	ND	ND	40
1,3-Dichlorobenzene	ND	ND	ND	40
1,3-Dichloropropane	ND	ND	ND	40
1,4-Dichlorobenzene	ND	ND	ND	40
2,2-Dichloropropane	ND	ND	ND	40
2-Butanone (MEK)	ND	ND	ND	40
2-Chlorotoluene	ND	ND	ND	40
2-Hexanone	ND	ND	ND	40
2-Propanone (acetone)	ND	ND	ND	40
4-Chlorotoluene	ND	ND	ND	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	40
Acrylonitrile	ND	ND	ND	40
Benzene	ND	ND	ND	40
Bromobenzene	ND	ND	ND	40
Bromochloromethane	ND	ND	ND	40
Bromodichloromethane	ND	ND	ND	40
Bromoform	ND	ND	ND	40
Bromomethane	ND	ND	ND	40
Carbon Disulfide	ND	ND	ND	40
Carbon tetrachloride	ND	ND	ND	40
Chlorobenzene	ND	ND	ND	40
Chloroethane	ND	ND	ND	40
Chloroform	ND	ND	ND	40
Chloromethane	ND	ND	ND	40
Dibromochloromethane	ND	ND	ND	40
Dibromomethane	ND	ND	ND	40
Dichlorodifluoromethane	ND	ND	ND	40
Ethyl Ether	ND	ND	ND	40
Ethylbenzene	ND	ND	ND	40
Hexachlorobutadiene	ND	ND	ND	40
Isopropylbenzene	ND	ND	ND	40
M/P Xylene	ND	ND	ND	40

Methyl-t-Butyl Ether	ND	ND	ND	40
Methylene Chloride	ND	ND	ND	40
N-Butylbenzene	ND	ND	ND	40
N-Propylbenzene	ND	ND	ND	40
Naphthalene	ND	ND	ND	40
Ortho Xylene	ND	ND	ND	40
Para-Isopropyltoluene	ND	ND	ND	40
Sec-Butylbenzene	ND	ND	ND	40
Styrene	ND	ND	ND	40
Tert-Butylbenzene	ND	ND	ND	40
Tetrachloroethylene	ND	ND	ND	40
Tetrahydrofuran	ND	ND	ND	40
Toluene	ND	ND	ND	40
Trans-1,2-Dichloroethylene	ND	ND	ND	40
Trichloroethylene	ND	ND	ND	40
Trichlorofluoromethane	ND	ND	ND	40
Vinyl Acetate	ND	ND	ND	40
Vinyl Chloride	ND	ND	ND	40
c-1,3-dichloropropene	ND	ND	ND	40
cis-1,2-Dichloroethylene	ND	ND	ND	40
t-1,3-Dichloropropene	ND	ND	ND	40

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	18.5	93	77 - 122
1,1,1-Trichloroethane	20	19.0	95	80 - 128
1,1,2,2-Tetrachloroethane	20	19.2	96	73 - 118
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	19.5	98	59 - 146
1,1,2-Trichloroethane	20	19.1	96	79 - 117
1,1-Dichloroethylene	20	17.9	90	70 - 130
1,1-Dichloropropene	20	18.5	93	79 - 123
1,1-dichloroethane	20	19.1	96	81 - 122
1,2,3-Trichlorobenzene	20	18.3	92	70 - 119
1,2,3-Trichloropropane	20	17.8	89	73 - 114
1,2,4-Trichlorobenzene	20	18.1	91	74 - 120
1,2,4-Trimethylbenzene	20	19.0	95	79 - 123
1,2-Dibromo-3-Chloropropane	20	19.0	95	63 - 124
1,2-Dibromoethane	20	19.1	96	79 - 116
1,2-Dichlorobenzene	20	18.5	93	77 - 117
1,2-Dichloroethane	20	19.1	96	75 - 124
1,2-Dichloropropane	20	18.2	91	80 - 117
1,3,5-Trimethylbenzene	20	18.7	94	80 - 122
1,3-Dichlorobenzene	20	18.4	92	78 - 117
1,3-Dichloropropane	20	18.5	93	79 - 116
1,4-Dichlorobenzene	20	18.1	91	77 - 115
2,2-Dichloropropane	20	19.2	96	64 - 152
2-Butanone (MEK)	20	17.9	90	55 - 144
2-Chlorotoluene	20	18.2	91	79 - 119
2-Hexanone	20	19.6	98	58 - 147
2-Propanone (acetone)	20	18.1	91	37 - 168
4-Chlorotoluene	20	18.5	93	78 - 120
4-Methyl-2-Pentanone(MIBK)	20	18.7	94	68 - 125
Acrylonitrile	20	19.0	95	68 - 124
Benzene	20	19.0	95	80 - 120
Bromobenzene	20	18.4	92	80 - 115
Bromochloromethane	20	19.0	95	81 - 120
Bromodichloromethane	20	19.1	96	77 - 125
Bromoform	20	19.4	97	62 - 127
Bromomethane	20	17.0	85	60 - 139
Carbon Disulfide	20	17.8	89	73 - 129
Carbon tetrachloride	20	19.6	98	73 - 136
Chlorobenzene	20	18.8	94	82 - 119
Chloroethane	20	17.8	89	69 - 130
Chloroform	20	19.4	97	80 - 122
Chloromethane	20	16.5	83	65 - 129
Dibromochloromethane	20	19.7	99	71 - 129
Dibromomethane	20	18.9	95	79 - 115
Dichlorodifluoromethane	20	16.2	81	69 - 126
Ethyl Ether	20	18.0	90	69 - 127
Ethylbenzene	20	18.7	94	80 - 121
Hexachlorobutadiene	20	17.5	88	72 - 124
Isopropylbenzene	20	19.0	95	79 - 124
M/P Xylene	40	36.7	92	81 - 120
Methyl-t-Butyl Ether	20	18.0	90	78 - 120
Methylene Chloride	20	18.8	94	73 - 129
N-Butylbenzene	20	19.3	97	78 - 126

N-Propylbenzene	20	18.5	93	78 - 122
Naphthalene	20	17.3	87	66 - 124
Ortho Xylene	20	18.6	93	81 - 121
Para-Isopropyltoluene	20	19.5	98	77 - 127
Sec-Butylbenzene	20	18.9	95	79 - 124
Styrene	20	19.1	96	82 - 122
Tert-Butylbenzene	20	18.8	94	78 - 124
Tetrachloroethylene	20	17.9	90	77 - 118
Tetrahydrofuran	20	18.6	93	67 - 124
Toluene	20	18.9	95	81 - 120
Trans-1,2-Dichloroethylene	20	19.0	95	80 - 121
Trichloroethylene	20	18.2	91	80 - 117
Trichlorofluoromethane	20	18.6	93	68 - 137
Vinyl Acetate	20	16.9	85	25 - 150
Vinyl Chloride	20	19.0	95	67 - 134
c-1,3-dichloropropene	20	19.9	100	73 - 133
cis-1,2-Dichloroethylene	20	19.2	96	82 - 122
t-1,3-Dichloropropene	20	19.6	98	69 - 127

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	18.2	91	2	50
1,1,1-Trichloroethane	20.2	101	6	50
1,1,2,2-Tetrachloroethane	19.4	97	1	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20.5	103	5	50
1,1,2-Trichloroethane	19.3	97	1	50
1,1-Dichloroethylene	19.0	95	6	52
1,1-Dichloropropene	18.6	93	1	50
1,1-dichloroethane	20.1	101	5	50
1,2,3-Trichlorobenzene	19.8	99	8	50
1,2,3-Trichloropropane	19.6	98	10	50
1,2,4-Trichlorobenzene	18.6	93	3	50
1,2,4-Trimethylbenzene	19.5	98	3	50
1,2-Dibromo-3-Chloropropane	20.6	103	8	50
1,2-Dibromoethane	19.8	99	4	50
1,2-Dichlorobenzene	19.2	96	4	50
1,2-Dichloroethane	19.9	100	4	50
1,2-Dichloropropane	19.0	95	4	50
1,3,5-Trimethylbenzene	19.6	98	5	50
1,3-Dichlorobenzene	18.9	95	3	50
1,3-Dichloropropane	19.5	98	5	50
1,4-Dichlorobenzene	19.0	95	5	50
2,2-Dichloropropane	20.3	102	6	50
2-Butanone (MEK)	22.7	114	24	50
2-Chlorotoluene	18.7	94	3	50
2-Hexanone	23.8	119	19	50
2-Propanone (acetone)	23.3	117	25	50
4-Chlorotoluene	19.2	96	4	50
4-Methyl-2-Pentanone(MIBK)	22.4	112	18	50
Acrylonitrile	22.2	111	16	50
Benzene	19.2	96	1	50
Bromobenzene	19.0	95	3	50
Bromochloromethane	20.8	104	9	50
Bromodichloromethane	18.9	95	1	50
Bromoform	18.7	94	4	50
Bromomethane	18.6	93	9	50
Carbon Disulfide	19.1	96	7	50
Carbon tetrachloride	19.4	97	1	50
Chlorobenzene	18.8	94	0	34
Chloroethane	18.8	94	6	50
Chloroform	20.0	100	3	50
Chloromethane	18.0	90	9	50
Dibromochloromethane	19.4	97	2	50
Dibromomethane	19.4	97	3	50
Dichlorodifluoromethane	16.8	84	4	50
Ethyl Ether	21.3	107	17	50
Ethylbenzene	19.0	95	2	50
Hexachlorobutadiene	17.8	89	2	50
Isopropylbenzene	19.5	98	3	50
M/P Xylene	37.7	94	3	50
Methyl-t-Butyl Ether	20.6	103	14	50
Methylene Chloride	19.5	98	4	50
N-Butylbenzene	20.0	100	4	50
N-Propylbenzene	19.4	97	5	50
Naphthalene	18.8	94	8	50
Ortho Xylene	19.3	97	4	50

Para-Isopropyltoluene	19.8	99	2	50
Sec-Butylbenzene	19.6	98	4	50
Styrene	19.6	98	3	50
Tert-Butylbenzene	19.6	98	4	50
Tetrachloroethylene	18.6	93	4	50
Tetrahydrofuran	22.8	114	20	50
Toluene	18.9	95	0	50
Trans-1,2-Dichloroethylene	19.6	98	3	50
Trichloroethylene	19.1	96	5	27
Trichlorofluoromethane	20.0	100	7	50
Vinyl Acetate	18.4	92	9	50
Vinyl Chloride	19.7	99	4	50
c-1,3-dichloropropene	20.1	101	1	50
cis-1,2-Dichloroethylene	20.2	101	5	50
t-1,3-Dichloropropene	20.4	102	4	50

Samples in Batch: AB34953, AB34954, AB34955, AB34956, AB34957, AB34958, AB34959, AB34960, AB34961, AB34962, AB34963, AB34964, AB34965, AB34966, AB34967, AB34968, AB34976

PN: 12100037

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
Kelly M Dubois	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10-23-12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-107_0-.5	10/22/12	9:22	SO	X	X	X			3		
	MHK_SS-107_1-2	10/22/12	9:38	SO	X	X				2		
	MHK_SS-110_0-.5	10/22/12	9:55	SO	X	X	X			3		
	MHK_SS-110_1-2	10/22/12	10:05	SO	X	X				2		
	MHK_SS-116_0-.5	10/22/12	10:18	SO	X	X	X			3		
	MHK_SS-116_1-2	10/22/12	10:28	SO	X	X				2		
	MHK_SS-122_0-.5	10/22/12	11:28	SO	X	X	X			3		
	MHK_SS-122_1-2	10/22/12	11:38	SO	X	X				2		
	MHK_SS-137_0-.5	10/22/12	11:50	SO	X	X	X			3		
	MHK_SS-137_1-2	10/22/12	11:58	SO	X	X				2		

PN: 12100037

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1505
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-138_1-2	10/23/12	12:24	SO	X	X				2		
	MHK_SS-140_0-.5	10/23/12	12:39	SO	X	X	X			3		
	MHK_SS-140_1-2	10/23/12	12:52	SO	X	X				2		
	MHK_SS-145_0-.5	10/23/12	9:04	SO	X	X	X			3		
	MHK_SS-151_0-.5	10/23/12	10:09	SO	X	X	X			3		
	MHK_SS-152_0-.5	10/23/12	10:20	SO	X	X	X			3		
	MHK_SS-153_0-.5	10/23/12	10:37	SO	X	X	X			3		
	MHK_SS-154_0-.5	10/23/12	11:16	SO	X	X	X			3		
	MHK_SS-155_0-.5	10/23/12	11:30	SO	X	X	X			3		
	OW-201	10/23/12	12:39	SO	X	X	X			3		
	EQUIP BLANK	10/23/12	13:30	AQ	X	X				6		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

November 07, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100038
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Soil High Level Method
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Date Samples Received by the Laboratory: 10/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-154_0-.5	Lab Sample ID:	AB34977
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	9.678 grams	Extract Dilution:	50
Wet Weight Extracted:	10.753 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	57	
71-55-6	1,1,1-Trichloroethane	ND	57	
79-34-5	1,1,2,2-Tetrachloroethane	ND	57	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	57	
79-00-5	1,1,2-Trichloroethane	ND	57	
75-35-4	1,1-Dichloroethylene	ND	57	
563-58-6	1,1-Dichloropropene	ND	57	
75-34-3	1,1-dichloroethane	ND	57	
87-61-6	1,2,3-Trichlorobenzene	ND	57	
96-18-4	1,2,3-Trichloropropane	ND	57	
120-82-1	1,2,4-Trichlorobenzene	ND	57	
95-63-6	1,2,4-Trimethylbenzene	ND	57	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	57	
106-93-4	1,2-Dibromoethane	ND	57	
95-50-1	1,2-Dichlorobenzene	ND	57	
107-06-2	1,2-Dichloroethane	ND	57	
78-87-5	1,2-Dichloropropane	ND	57	
108-67-8	1,3,5-Trimethylbenzene	ND	57	
541-73-1	1,3-Dichlorobenzene	ND	57	
142-28-9	1,3-Dichloropropane	ND	57	
106-46-7	1,4-Dichlorobenzene	ND	57	
594-20-7	2,2-Dichloropropane	ND	57	
78-93-3	2-Butanone (MEK)	ND	57	
95-49-8	2-Chlorotoluene	ND	57	
591-78-6	2-Hexanone	ND	57	
67-64-1	2-Propanone (acetone)	ND	57	
106-43-4	4-Chlorotoluene	ND	57	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	57	
107-13-1	Acrylonitrile	ND	57	
71-43-2	Benzene	ND	57	
108-86-1	Bromobenzene	ND	57	
74-97-5	Bromochloromethane	ND	57	
75-27-4	Bromodichloromethane	ND	57	
75-25-2	Bromoform	ND	57	
74-83-9	Bromomethane	ND	57	
75-15-0	Carbon Disulfide	ND	57	
56-23-5	Carbon tetrachloride	ND	57	
108-90-7	Chlorobenzene	ND	57	
75-00-3	Chloroethane	ND	57	
67-66-3	Chloroform	ND	57	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-154_0-.5	Lab Sample ID:	AB34977
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	9.678 grams	Extract Dilution:	50
Wet Weight Extracted:	10.753 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	57	
124-48-1	Dibromochloromethane	ND	57	
74-95-3	Dibromomethane	ND	57	
75-71-8	Dichlorodifluoromethane	ND	57	
60-29-7	Ethyl Ether	ND	57	
100-41-4	Ethylbenzene	ND	57	
87-68-3	Hexachlorobutadiene	ND	57	
98-82-8	Isopropylbenzene	ND	57	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	57	
75-09-2	Methylene Chloride	ND	57	
104-51-8	N-Butylbenzene	ND	57	
103-65-1	N-Propylbenzene	ND	57	
91-20-3	Naphthalene	ND	57	
95-47-6	Ortho Xylene	ND	57	
99-87-6	Para-Isopropyltoluene	ND	57	
135-98-8	Sec-Butylbenzene	ND	57	
100-42-5	Styrene	ND	57	
98-06-6	Tert-Butylbenzene	ND	57	
127-18-4	Tetrachloroethylene	ND	57	
109-99-9	Tetrahydrofuran	ND	57	
108-88-3	Toluene	ND	57	
156-60-5	Trans-1,2-Dichloroethylene	ND	57	
79-01-6	Trichloroethylene	ND	57	
75-69-4	Trichlorofluoromethane	ND	57	
108-05-4	Vinyl Acetate	ND	57	
75-01-4	Vinyl Chloride	ND	57	
10061-01-5	c-1,3-dichloropropene	ND	57	
156-59-2	cis-1,2-Dichloroethylene	ND	57	
10061-02-6	t-1,3-Dichloropropene	ND	57	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	78	78 - 111
1,2-Dichloroethane-D4	104	74 - 136
Toluene-D8	91	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	90	85 - 118
1,4-Bromofluorobenzene	78	78 - 111

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34977 (MS/MS and Duplicate Studies), AB34978, and AB34993.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-155_0-.5	Lab Sample ID:	AB34978
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	8.917 grams	Extract Dilution:	50
Wet Weight Extracted:	9.908 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	
71-55-6	1,1,1-Trichloroethane	ND	62	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	62	
79-00-5	1,1,2-Trichloroethane	ND	62	
75-35-4	1,1-Dichloroethylene	ND	62	
563-58-6	1,1-Dichloropropene	ND	62	
75-34-3	1,1-dichloroethane	ND	62	
87-61-6	1,2,3-Trichlorobenzene	ND	62	
96-18-4	1,2,3-Trichloropropane	ND	62	
120-82-1	1,2,4-Trichlorobenzene	ND	62	
95-63-6	1,2,4-Trimethylbenzene	ND	62	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	62	
106-93-4	1,2-Dibromoethane	ND	62	
95-50-1	1,2-Dichlorobenzene	ND	62	
107-06-2	1,2-Dichloroethane	ND	62	
78-87-5	1,2-Dichloropropane	ND	62	
108-67-8	1,3,5-Trimethylbenzene	ND	62	
541-73-1	1,3-Dichlorobenzene	ND	62	
142-28-9	1,3-Dichloropropane	ND	62	
106-46-7	1,4-Dichlorobenzene	ND	62	
594-20-7	2,2-Dichloropropane	ND	62	
78-93-3	2-Butanone (MEK)	ND	62	
95-49-8	2-Chlorotoluene	ND	62	
591-78-6	2-Hexanone	ND	62	
67-64-1	2-Propanone (acetone)	ND	62	
106-43-4	4-Chlorotoluene	ND	62	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	62	
107-13-1	Acrylonitrile	ND	62	
71-43-2	Benzene	ND	62	
108-86-1	Bromobenzene	ND	62	
74-97-5	Bromochloromethane	ND	62	
75-27-4	Bromodichloromethane	ND	62	
75-25-2	Bromoform	ND	62	
74-83-9	Bromomethane	ND	62	
75-15-0	Carbon Disulfide	ND	62	
56-23-5	Carbon tetrachloride	ND	62	
108-90-7	Chlorobenzene	ND	62	
75-00-3	Chloroethane	ND	62	
67-66-3	Chloroform	ND	62	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-155_0-.5	Lab Sample ID:	AB34978
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	8.917 grams	Extract Dilution:	50
Wet Weight Extracted:	9.908 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	62	
124-48-1	Dibromochloromethane	ND	62	
74-95-3	Dibromomethane	ND	62	
75-71-8	Dichlorodifluoromethane	ND	62	
60-29-7	Ethyl Ether	ND	62	
100-41-4	Ethylbenzene	ND	62	
87-68-3	Hexachlorobutadiene	ND	62	
98-82-8	Isopropylbenzene	ND	62	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	62	
75-09-2	Methylene Chloride	ND	62	
104-51-8	N-Butylbenzene	ND	62	
103-65-1	N-Propylbenzene	ND	62	
91-20-3	Naphthalene	ND	62	
95-47-6	Ortho Xylene	ND	62	
99-87-6	Para-Isopropyltoluene	ND	62	
135-98-8	Sec-Butylbenzene	ND	62	
100-42-5	Styrene	ND	62	
98-06-6	Tert-Butylbenzene	ND	62	
127-18-4	Tetrachloroethylene	ND	62	
109-99-9	Tetrahydrofuran	ND	62	
108-88-3	Toluene	ND	62	
156-60-5	Trans-1,2-Dichloroethylene	ND	62	
79-01-6	Trichloroethylene	ND	62	
75-69-4	Trichlorofluoromethane	ND	62	
108-05-4	Vinyl Acetate	ND	62	
75-01-4	Vinyl Chloride	ND	62	
10061-01-5	c-1,3-dichloropropene	ND	62	
156-59-2	cis-1,2-Dichloroethylene	ND	62	
10061-02-6	t-1,3-Dichloropropene	ND	62	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	77	78 - 111
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	91	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	OW-201	Lab Sample ID:	AB34979
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	88%
Dry Weight Extracted:	9.090 grams	Extract Dilution:	50
Wet Weight Extracted:	10.329 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	
71-55-6	1,1,1-Trichloroethane	ND	62	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	62	
79-00-5	1,1,2-Trichloroethane	ND	62	
75-35-4	1,1-Dichloroethylene	ND	62	
563-58-6	1,1-Dichloropropene	ND	62	
75-34-3	1,1-dichloroethane	ND	62	
87-61-6	1,2,3-Trichlorobenzene	ND	62	
96-18-4	1,2,3-Trichloropropane	ND	62	
120-82-1	1,2,4-Trichlorobenzene	ND	62	
95-63-6	1,2,4-Trimethylbenzene	ND	62	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	62	
106-93-4	1,2-Dibromoethane	ND	62	
95-50-1	1,2-Dichlorobenzene	ND	62	
107-06-2	1,2-Dichloroethane	ND	62	
78-87-5	1,2-Dichloropropane	ND	62	
108-67-8	1,3,5-Trimethylbenzene	ND	62	
541-73-1	1,3-Dichlorobenzene	ND	62	
142-28-9	1,3-Dichloropropane	ND	62	
106-46-7	1,4-Dichlorobenzene	ND	62	
594-20-7	2,2-Dichloropropane	ND	62	
78-93-3	2-Butanone (MEK)	ND	62	
95-49-8	2-Chlorotoluene	ND	62	
591-78-6	2-Hexanone	ND	62	
67-64-1	2-Propanone (acetone)	ND	62	
106-43-4	4-Chlorotoluene	ND	62	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	62	
107-13-1	Acrylonitrile	ND	62	
71-43-2	Benzene	ND	62	
108-86-1	Bromobenzene	ND	62	
74-97-5	Bromochloromethane	ND	62	
75-27-4	Bromodichloromethane	ND	62	
75-25-2	Bromoform	ND	62	
74-83-9	Bromomethane	ND	62	
75-15-0	Carbon Disulfide	ND	62	
56-23-5	Carbon tetrachloride	ND	62	
108-90-7	Chlorobenzene	ND	62	
75-00-3	Chloroethane	ND	62	
67-66-3	Chloroform	ND	62	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	OW-201	Lab Sample ID:	AB34979
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	88%
Dry Weight Extracted:	9.090 grams	Extract Dilution:	50
Wet Weight Extracted:	10.329 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	62	
124-48-1	Dibromochloromethane	ND	62	
74-95-3	Dibromomethane	ND	62	
75-71-8	Dichlorodifluoromethane	ND	62	
60-29-7	Ethyl Ether	ND	62	
100-41-4	Ethylbenzene	ND	62	
87-68-3	Hexachlorobutadiene	ND	62	
98-82-8	Isopropylbenzene	ND	62	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	62	
75-09-2	Methylene Chloride	ND	62	
104-51-8	N-Butylbenzene	ND	62	
103-65-1	N-Propylbenzene	ND	62	
91-20-3	Naphthalene	ND	62	
95-47-6	Ortho Xylene	ND	62	
99-87-6	Para-Isopropyltoluene	ND	62	
135-98-8	Sec-Butylbenzene	ND	62	
100-42-5	Styrene	ND	62	
98-06-6	Tert-Butylbenzene	ND	62	
127-18-4	Tetrachloroethylene	ND	62	
109-99-9	Tetrahydrofuran	ND	62	
108-88-3	Toluene	ND	62	
156-60-5	Trans-1,2-Dichloroethylene	ND	62	
79-01-6	Trichloroethylene	ND	62	
75-69-4	Trichlorofluoromethane	ND	62	
108-05-4	Vinyl Acetate	ND	62	
75-01-4	Vinyl Chloride	ND	62	
10061-01-5	c-1,3-dichloropropene	ND	62	
156-59-2	cis-1,2-Dichloroethylene	ND	62	
10061-02-6	t-1,3-Dichloropropene	ND	62	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	78	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	90	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	90	85 - 118
1,4-Bromofluorobenzene	81	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with samples AB34979 - AB34992.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34980
Date of Collection:	10/23/2012	Matrix	Aqueous
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34980
Date of Collection:	10/23/2012	Matrix	Aqueous
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	74	78 - 111
1,2-Dichloroethane-D4	123	74 - 136
Toluene-D8	90	85 - 118

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	EQUIP BLANK	Lab Sample ID:	AB34980
Date of Collection:	10/23/2012	Matrix	Aqueous
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Equipment blank sample is reported in ug/L.

The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-139_0-.5	Lab Sample ID:	AB34981
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	10.310 grams	Extract Dilution:	50
Wet Weight Extracted:	12.129 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	57	
71-55-6	1,1,1-Trichloroethane	ND	57	
79-34-5	1,1,2,2-Tetrachloroethane	ND	57	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	57	
79-00-5	1,1,2-Trichloroethane	ND	57	
75-35-4	1,1-Dichloroethylene	ND	57	
563-58-6	1,1-Dichloropropene	ND	57	
75-34-3	1,1-dichloroethane	ND	57	
87-61-6	1,2,3-Trichlorobenzene	ND	57	
96-18-4	1,2,3-Trichloropropane	ND	57	
120-82-1	1,2,4-Trichlorobenzene	ND	57	
95-63-6	1,2,4-Trimethylbenzene	ND	57	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	57	
106-93-4	1,2-Dibromoethane	ND	57	
95-50-1	1,2-Dichlorobenzene	ND	57	
107-06-2	1,2-Dichloroethane	ND	57	
78-87-5	1,2-Dichloropropane	ND	57	
108-67-8	1,3,5-Trimethylbenzene	ND	57	
541-73-1	1,3-Dichlorobenzene	ND	57	
142-28-9	1,3-Dichloropropane	ND	57	
106-46-7	1,4-Dichlorobenzene	ND	57	
594-20-7	2,2-Dichloropropane	ND	57	
78-93-3	2-Butanone (MEK)	ND	57	
95-49-8	2-Chlorotoluene	ND	57	
591-78-6	2-Hexanone	ND	57	
67-64-1	2-Propanone (acetone)	ND	57	
106-43-4	4-Chlorotoluene	ND	57	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	57	
107-13-1	Acrylonitrile	ND	57	
71-43-2	Benzene	ND	57	
108-86-1	Bromobenzene	ND	57	
74-97-5	Bromochloromethane	ND	57	
75-27-4	Bromodichloromethane	ND	57	
75-25-2	Bromoform	ND	57	
74-83-9	Bromomethane	ND	57	
75-15-0	Carbon Disulfide	ND	57	
56-23-5	Carbon tetrachloride	ND	57	
108-90-7	Chlorobenzene	ND	57	
75-00-3	Chloroethane	ND	57	
67-66-3	Chloroform	ND	57	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-139_0-.5	Lab Sample ID:	AB34981
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	10.310 grams	Extract Dilution:	50
Wet Weight Extracted:	12.129 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	57	
124-48-1	Dibromochloromethane	ND	57	
74-95-3	Dibromomethane	ND	57	
75-71-8	Dichlorodifluoromethane	ND	57	
60-29-7	Ethyl Ether	ND	57	
100-41-4	Ethylbenzene	ND	57	
87-68-3	Hexachlorobutadiene	ND	57	
98-82-8	Isopropylbenzene	ND	57	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	57	
75-09-2	Methylene Chloride	ND	57	
104-51-8	N-Butylbenzene	ND	57	
103-65-1	N-Propylbenzene	ND	57	
91-20-3	Naphthalene	ND	57	
95-47-6	Ortho Xylene	ND	57	
99-87-6	Para-Isopropyltoluene	ND	57	
135-98-8	Sec-Butylbenzene	ND	57	
100-42-5	Styrene	ND	57	
98-06-6	Tert-Butylbenzene	ND	57	
127-18-4	Tetrachloroethylene	ND	57	
109-99-9	Tetrahydrofuran	ND	57	
108-88-3	Toluene	ND	57	
156-60-5	Trans-1,2-Dichloroethylene	ND	57	
79-01-6	Trichloroethylene	ND	57	
75-69-4	Trichlorofluoromethane	ND	57	
108-05-4	Vinyl Acetate	ND	57	
75-01-4	Vinyl Chloride	ND	57	
10061-01-5	c-1,3-dichloropropene	ND	57	
156-59-2	cis-1,2-Dichloroethylene	ND	57	
10061-02-6	t-1,3-Dichloropropene	ND	57	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	78	78 - 111
1,2-Dichloroethane-D4	112	74 - 136
Toluene-D8	90	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-139_1-2	Lab Sample ID:	AB34982
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.996 grams	Extract Dilution:	50
Wet Weight Extracted:	11.623 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	58	
71-55-6	1,1,1-Trichloroethane	ND	58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	58	
79-00-5	1,1,2-Trichloroethane	ND	58	
75-35-4	1,1-Dichloroethylene	ND	58	
563-58-6	1,1-Dichloropropene	ND	58	
75-34-3	1,1-dichloroethane	ND	58	
87-61-6	1,2,3-Trichlorobenzene	ND	58	
96-18-4	1,2,3-Trichloropropane	ND	58	
120-82-1	1,2,4-Trichlorobenzene	ND	58	
95-63-6	1,2,4-Trimethylbenzene	ND	58	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	58	
106-93-4	1,2-Dibromoethane	ND	58	
95-50-1	1,2-Dichlorobenzene	ND	58	
107-06-2	1,2-Dichloroethane	ND	58	
78-87-5	1,2-Dichloropropane	ND	58	
108-67-8	1,3,5-Trimethylbenzene	ND	58	
541-73-1	1,3-Dichlorobenzene	ND	58	
142-28-9	1,3-Dichloropropane	ND	58	
106-46-7	1,4-Dichlorobenzene	ND	58	
594-20-7	2,2-Dichloropropane	ND	58	
78-93-3	2-Butanone (MEK)	ND	58	
95-49-8	2-Chlorotoluene	ND	58	
591-78-6	2-Hexanone	ND	58	
67-64-1	2-Propanone (acetone)	ND	58	
106-43-4	4-Chlorotoluene	ND	58	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	58	
107-13-1	Acrylonitrile	ND	58	
71-43-2	Benzene	ND	58	
108-86-1	Bromobenzene	ND	58	
74-97-5	Bromochloromethane	ND	58	
75-27-4	Bromodichloromethane	ND	58	
75-25-2	Bromoform	ND	58	
74-83-9	Bromomethane	ND	58	
75-15-0	Carbon Disulfide	ND	58	
56-23-5	Carbon tetrachloride	ND	58	
108-90-7	Chlorobenzene	ND	58	
75-00-3	Chloroethane	ND	58	
67-66-3	Chloroform	ND	58	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-139_1-2	Lab Sample ID:	AB34982
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.996 grams	Extract Dilution:	50
Wet Weight Extracted:	11.623 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	58	
124-48-1	Dibromochloromethane	ND	58	
74-95-3	Dibromomethane	ND	58	
75-71-8	Dichlorodifluoromethane	ND	58	
60-29-7	Ethyl Ether	ND	58	
100-41-4	Ethylbenzene	ND	58	
87-68-3	Hexachlorobutadiene	ND	58	
98-82-8	Isopropylbenzene	ND	58	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	58	
75-09-2	Methylene Chloride	ND	58	
104-51-8	N-Butylbenzene	ND	58	
103-65-1	N-Propylbenzene	ND	58	
91-20-3	Naphthalene	ND	58	
95-47-6	Ortho Xylene	ND	58	
99-87-6	Para-Isopropyltoluene	ND	58	
135-98-8	Sec-Butylbenzene	ND	58	
100-42-5	Styrene	ND	58	
98-06-6	Tert-Butylbenzene	ND	58	
127-18-4	Tetrachloroethylene	ND	58	
109-99-9	Tetrahydrofuran	ND	58	
108-88-3	Toluene	ND	58	
156-60-5	Trans-1,2-Dichloroethylene	ND	58	
79-01-6	Trichloroethylene	ND	58	
75-69-4	Trichlorofluoromethane	ND	58	
108-05-4	Vinyl Acetate	ND	58	
75-01-4	Vinyl Chloride	ND	58	
10061-01-5	c-1,3-dichloropropene	ND	58	
156-59-2	cis-1,2-Dichloroethylene	ND	58	
10061-02-6	t-1,3-Dichloropropene	ND	58	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	77	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	90	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-141_0-.5	Lab Sample ID:	AB34983
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	8.534 grams	Extract Dilution:	50
Wet Weight Extracted:	9.923 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	67	
71-55-6	1,1,1-Trichloroethane	ND	67	
79-34-5	1,1,2,2-Tetrachloroethane	ND	67	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	67	
79-00-5	1,1,2-Trichloroethane	ND	67	
75-35-4	1,1-Dichloroethylene	ND	67	
563-58-6	1,1-Dichloropropene	ND	67	
75-34-3	1,1-dichloroethane	ND	67	
87-61-6	1,2,3-Trichlorobenzene	ND	67	
96-18-4	1,2,3-Trichloropropane	ND	67	
120-82-1	1,2,4-Trichlorobenzene	ND	67	
95-63-6	1,2,4-Trimethylbenzene	ND	67	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	67	
106-93-4	1,2-Dibromoethane	ND	67	
95-50-1	1,2-Dichlorobenzene	ND	67	
107-06-2	1,2-Dichloroethane	ND	67	
78-87-5	1,2-Dichloropropane	ND	67	
108-67-8	1,3,5-Trimethylbenzene	ND	67	
541-73-1	1,3-Dichlorobenzene	ND	67	
142-28-9	1,3-Dichloropropane	ND	67	
106-46-7	1,4-Dichlorobenzene	ND	67	
594-20-7	2,2-Dichloropropane	ND	67	
78-93-3	2-Butanone (MEK)	ND	67	
95-49-8	2-Chlorotoluene	ND	67	
591-78-6	2-Hexanone	ND	67	
67-64-1	2-Propanone (acetone)	ND	67	
106-43-4	4-Chlorotoluene	ND	67	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	67	
107-13-1	Acrylonitrile	ND	67	
71-43-2	Benzene	ND	67	
108-86-1	Bromobenzene	ND	67	
74-97-5	Bromochloromethane	ND	67	
75-27-4	Bromodichloromethane	ND	67	
75-25-2	Bromoform	ND	67	
74-83-9	Bromomethane	ND	67	
75-15-0	Carbon Disulfide	ND	67	
56-23-5	Carbon tetrachloride	ND	67	
108-90-7	Chlorobenzene	ND	67	
75-00-3	Chloroethane	ND	67	
67-66-3	Chloroform	ND	67	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-141_0-.5	Lab Sample ID:	AB34983
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	8.534 grams	Extract Dilution:	50
Wet Weight Extracted:	9.923 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	67	
124-48-1	Dibromochloromethane	ND	67	
74-95-3	Dibromomethane	ND	67	
75-71-8	Dichlorodifluoromethane	ND	67	
60-29-7	Ethyl Ether	ND	67	
100-41-4	Ethylbenzene	ND	67	
87-68-3	Hexachlorobutadiene	ND	67	
98-82-8	Isopropylbenzene	ND	67	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	67	
75-09-2	Methylene Chloride	ND	67	
104-51-8	N-Butylbenzene	ND	67	
103-65-1	N-Propylbenzene	ND	67	
91-20-3	Naphthalene	ND	67	
95-47-6	Ortho Xylene	ND	67	
99-87-6	Para-Isopropyltoluene	ND	67	
135-98-8	Sec-Butylbenzene	ND	67	
100-42-5	Styrene	ND	67	
98-06-6	Tert-Butylbenzene	ND	67	
127-18-4	Tetrachloroethylene	ND	67	
109-99-9	Tetrahydrofuran	ND	67	
108-88-3	Toluene	ND	67	
156-60-5	Trans-1,2-Dichloroethylene	ND	67	
79-01-6	Trichloroethylene	ND	67	
75-69-4	Trichlorofluoromethane	ND	67	
108-05-4	Vinyl Acetate	ND	67	
75-01-4	Vinyl Chloride	ND	67	
10061-01-5	c-1,3-dichloropropene	ND	67	
156-59-2	cis-1,2-Dichloroethylene	ND	67	
10061-02-6	t-1,3-Dichloropropene	ND	67	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	90	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-143_0-.5	Lab Sample ID:	AB34984
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	79%
Dry Weight Extracted:	7.484 grams	Extract Dilution:	50
Wet Weight Extracted:	9.474 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	80	
71-55-6	1,1,1-Trichloroethane	ND	80	
79-34-5	1,1,2,2-Tetrachloroethane	ND	80	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	80	
79-00-5	1,1,2-Trichloroethane	ND	80	
75-35-4	1,1-Dichloroethylene	ND	80	
563-58-6	1,1-Dichloropropene	ND	80	
75-34-3	1,1-dichloroethane	ND	80	
87-61-6	1,2,3-Trichlorobenzene	ND	80	
96-18-4	1,2,3-Trichloropropane	ND	80	
120-82-1	1,2,4-Trichlorobenzene	ND	80	
95-63-6	1,2,4-Trimethylbenzene	ND	80	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	80	
106-93-4	1,2-Dibromoethane	ND	80	
95-50-1	1,2-Dichlorobenzene	ND	80	
107-06-2	1,2-Dichloroethane	ND	80	
78-87-5	1,2-Dichloropropane	ND	80	
108-67-8	1,3,5-Trimethylbenzene	ND	80	
541-73-1	1,3-Dichlorobenzene	ND	80	
142-28-9	1,3-Dichloropropane	ND	80	
106-46-7	1,4-Dichlorobenzene	ND	80	
594-20-7	2,2-Dichloropropane	ND	80	
78-93-3	2-Butanone (MEK)	ND	80	
95-49-8	2-Chlorotoluene	ND	80	
591-78-6	2-Hexanone	ND	80	
67-64-1	2-Propanone (acetone)	ND	80	
106-43-4	4-Chlorotoluene	ND	80	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	80	
107-13-1	Acrylonitrile	ND	80	
71-43-2	Benzene	ND	80	
108-86-1	Bromobenzene	ND	80	
74-97-5	Bromochloromethane	ND	80	
75-27-4	Bromodichloromethane	ND	80	
75-25-2	Bromoform	ND	80	
74-83-9	Bromomethane	ND	80	
75-15-0	Carbon Disulfide	ND	80	
56-23-5	Carbon tetrachloride	ND	80	
108-90-7	Chlorobenzene	ND	80	
75-00-3	Chloroethane	ND	80	
67-66-3	Chloroform	ND	80	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-143_0-.5	Lab Sample ID:	AB34984
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	79%
Dry Weight Extracted:	7.484 grams	Extract Dilution:	50
Wet Weight Extracted:	9.474 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	80	
124-48-1	Dibromochloromethane	ND	80	
74-95-3	Dibromomethane	ND	80	
75-71-8	Dichlorodifluoromethane	ND	80	
60-29-7	Ethyl Ether	ND	80	
100-41-4	Ethylbenzene	ND	80	
87-68-3	Hexachlorobutadiene	ND	80	
98-82-8	Isopropylbenzene	ND	80	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	80	
75-09-2	Methylene Chloride	ND	80	
104-51-8	N-Butylbenzene	ND	80	
103-65-1	N-Propylbenzene	ND	80	
91-20-3	Naphthalene	ND	80	
95-47-6	Ortho Xylene	ND	80	
99-87-6	Para-Isopropyltoluene	ND	80	
135-98-8	Sec-Butylbenzene	ND	80	
100-42-5	Styrene	ND	80	
98-06-6	Tert-Butylbenzene	ND	80	
127-18-4	Tetrachloroethylene	ND	80	
109-99-9	Tetrahydrofuran	ND	80	
108-88-3	Toluene	ND	80	
156-60-5	Trans-1,2-Dichloroethylene	ND	80	
79-01-6	Trichloroethylene	ND	80	
75-69-4	Trichlorofluoromethane	ND	80	
108-05-4	Vinyl Acetate	ND	80	
75-01-4	Vinyl Chloride	ND	80	
10061-01-5	c-1,3-dichloropropene	ND	80	
156-59-2	cis-1,2-Dichloroethylene	ND	80	
10061-02-6	t-1,3-Dichloropropene	ND	80	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	77	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	90	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-147_0-.5	Lab Sample ID:	AB34985
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	56%
Dry Weight Extracted:	5.839 grams	Extract Dilution:	50
Wet Weight Extracted:	10.426 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	120	
71-55-6	1,1,1-Trichloroethane	ND	120	
79-34-5	1,1,2,2-Tetrachloroethane	ND	120	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	120	
79-00-5	1,1,2-Trichloroethane	ND	120	
75-35-4	1,1-Dichloroethylene	ND	120	
563-58-6	1,1-Dichloropropene	ND	120	
75-34-3	1,1-dichloroethane	ND	120	
87-61-6	1,2,3-Trichlorobenzene	ND	120	
96-18-4	1,2,3-Trichloropropane	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-63-6	1,2,4-Trimethylbenzene	ND	120	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	120	
106-93-4	1,2-Dibromoethane	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
107-06-2	1,2-Dichloroethane	ND	120	
78-87-5	1,2-Dichloropropane	ND	120	
108-67-8	1,3,5-Trimethylbenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
142-28-9	1,3-Dichloropropane	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
594-20-7	2,2-Dichloropropane	ND	120	
78-93-3	2-Butanone (MEK)	ND	120	
95-49-8	2-Chlorotoluene	ND	120	
591-78-6	2-Hexanone	ND	120	
67-64-1	2-Propanone (acetone)	ND	120	
106-43-4	4-Chlorotoluene	ND	120	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	120	
107-13-1	Acrylonitrile	ND	120	
71-43-2	Benzene	ND	120	
108-86-1	Bromobenzene	ND	120	
74-97-5	Bromochloromethane	ND	120	
75-27-4	Bromodichloromethane	ND	120	
75-25-2	Bromoform	ND	120	
74-83-9	Bromomethane	ND	120	
75-15-0	Carbon Disulfide	ND	120	
56-23-5	Carbon tetrachloride	ND	120	
108-90-7	Chlorobenzene	ND	120	
75-00-3	Chloroethane	ND	120	
67-66-3	Chloroform	ND	120	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-147_0-.5	Lab Sample ID:	AB34985
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	56%
Dry Weight Extracted:	5.839 grams	Extract Dilution:	50
Wet Weight Extracted:	10.426 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	120	
124-48-1	Dibromochloromethane	ND	120	
74-95-3	Dibromomethane	ND	120	
75-71-8	Dichlorodifluoromethane	ND	120	
60-29-7	Ethyl Ether	ND	120	
100-41-4	Ethylbenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
98-82-8	Isopropylbenzene	ND	120	
108-38-3/106-42-	M/P Xylene	ND	240	
1634-04-4	Methyl-t-Butyl Ether	ND	120	
75-09-2	Methylene Chloride	ND	120	
104-51-8	N-Butylbenzene	ND	120	
103-65-1	N-Propylbenzene	ND	120	
91-20-3	Naphthalene	ND	120	
95-47-6	Ortho Xylene	ND	120	
99-87-6	Para-Isopropyltoluene	ND	120	
135-98-8	Sec-Butylbenzene	ND	120	
100-42-5	Styrene	ND	120	
98-06-6	Tert-Butylbenzene	ND	120	
127-18-4	Tetrachloroethylene	ND	120	
109-99-9	Tetrahydrofuran	ND	120	
108-88-3	Toluene	ND	120	
156-60-5	Trans-1,2-Dichloroethylene	ND	120	
79-01-6	Trichloroethylene	ND	120	
75-69-4	Trichlorofluoromethane	ND	120	
108-05-4	Vinyl Acetate	ND	120	
75-01-4	Vinyl Chloride	ND	120	
10061-01-5	c-1,3-dichloropropene	ND	120	
156-59-2	cis-1,2-Dichloroethylene	ND	120	
10061-02-6	t-1,3-Dichloropropene	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	119	74 - 136
Toluene-D8	91	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-149_0-.5	Lab Sample ID:	AB34986
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.110 grams	Extract Dilution:	50
Wet Weight Extracted:	10.593 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	63	
71-55-6	1,1,1-Trichloroethane	ND	63	
79-34-5	1,1,2,2-Tetrachloroethane	ND	63	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	63	
79-00-5	1,1,2-Trichloroethane	ND	63	
75-35-4	1,1-Dichloroethylene	ND	63	
563-58-6	1,1-Dichloropropene	ND	63	
75-34-3	1,1-dichloroethane	ND	63	
87-61-6	1,2,3-Trichlorobenzene	ND	63	
96-18-4	1,2,3-Trichloropropane	ND	63	
120-82-1	1,2,4-Trichlorobenzene	ND	63	
95-63-6	1,2,4-Trimethylbenzene	ND	63	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	63	
106-93-4	1,2-Dibromoethane	ND	63	
95-50-1	1,2-Dichlorobenzene	ND	63	
107-06-2	1,2-Dichloroethane	ND	63	
78-87-5	1,2-Dichloropropane	ND	63	
108-67-8	1,3,5-Trimethylbenzene	ND	63	
541-73-1	1,3-Dichlorobenzene	ND	63	
142-28-9	1,3-Dichloropropane	ND	63	
106-46-7	1,4-Dichlorobenzene	ND	63	
594-20-7	2,2-Dichloropropane	ND	63	
78-93-3	2-Butanone (MEK)	ND	63	
95-49-8	2-Chlorotoluene	ND	63	
591-78-6	2-Hexanone	ND	63	
67-64-1	2-Propanone (acetone)	ND	63	
106-43-4	4-Chlorotoluene	ND	63	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	63	
107-13-1	Acrylonitrile	ND	63	
71-43-2	Benzene	ND	63	
108-86-1	Bromobenzene	ND	63	
74-97-5	Bromochloromethane	ND	63	
75-27-4	Bromodichloromethane	ND	63	
75-25-2	Bromoform	ND	63	
74-83-9	Bromomethane	ND	63	
75-15-0	Carbon Disulfide	ND	63	
56-23-5	Carbon tetrachloride	ND	63	
108-90-7	Chlorobenzene	ND	63	
75-00-3	Chloroethane	ND	63	
67-66-3	Chloroform	ND	63	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-149_0-.5	Lab Sample ID:	AB34986
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	9.110 grams	Extract Dilution:	50
Wet Weight Extracted:	10.593 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	63	
124-48-1	Dibromochloromethane	ND	63	
74-95-3	Dibromomethane	ND	63	
75-71-8	Dichlorodifluoromethane	ND	63	
60-29-7	Ethyl Ether	ND	63	
100-41-4	Ethylbenzene	ND	63	
87-68-3	Hexachlorobutadiene	ND	63	
98-82-8	Isopropylbenzene	ND	63	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	63	
75-09-2	Methylene Chloride	ND	63	
104-51-8	N-Butylbenzene	ND	63	
103-65-1	N-Propylbenzene	ND	63	
91-20-3	Naphthalene	ND	63	
95-47-6	Ortho Xylene	ND	63	
99-87-6	Para-Isopropyltoluene	ND	63	
135-98-8	Sec-Butylbenzene	ND	63	
100-42-5	Styrene	ND	63	
98-06-6	Tert-Butylbenzene	ND	63	
127-18-4	Tetrachloroethylene	ND	63	
109-99-9	Tetrahydrofuran	ND	63	
108-88-3	Toluene	ND	63	
156-60-5	Trans-1,2-Dichloroethylene	ND	63	
79-01-6	Trichloroethylene	ND	63	
75-69-4	Trichlorofluoromethane	ND	63	
108-05-4	Vinyl Acetate	ND	63	
75-01-4	Vinyl Chloride	ND	63	
10061-01-5	c-1,3-dichloropropene	ND	63	
156-59-2	cis-1,2-Dichloroethylene	ND	63	
10061-02-6	t-1,3-Dichloropropene	ND	63	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	117	74 - 136
Toluene-D8	91	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-111_0-.5	Lab Sample ID:	AB34987
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	84%
Dry Weight Extracted:	8.773 grams	Extract Dilution:	50
Wet Weight Extracted:	10.444 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	67	
71-55-6	1,1,1-Trichloroethane	ND	67	
79-34-5	1,1,2,2-Tetrachloroethane	ND	67	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	67	
79-00-5	1,1,2-Trichloroethane	ND	67	
75-35-4	1,1-Dichloroethylene	ND	67	
563-58-6	1,1-Dichloropropene	ND	67	
75-34-3	1,1-dichloroethane	ND	67	
87-61-6	1,2,3-Trichlorobenzene	ND	67	
96-18-4	1,2,3-Trichloropropane	ND	67	
120-82-1	1,2,4-Trichlorobenzene	ND	67	
95-63-6	1,2,4-Trimethylbenzene	ND	67	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	67	
106-93-4	1,2-Dibromoethane	ND	67	
95-50-1	1,2-Dichlorobenzene	ND	67	
107-06-2	1,2-Dichloroethane	ND	67	
78-87-5	1,2-Dichloropropane	ND	67	
108-67-8	1,3,5-Trimethylbenzene	ND	67	
541-73-1	1,3-Dichlorobenzene	ND	67	
142-28-9	1,3-Dichloropropane	ND	67	
106-46-7	1,4-Dichlorobenzene	ND	67	
594-20-7	2,2-Dichloropropane	ND	67	
78-93-3	2-Butanone (MEK)	ND	67	
95-49-8	2-Chlorotoluene	ND	67	
591-78-6	2-Hexanone	ND	67	
67-64-1	2-Propanone (acetone)	ND	67	
106-43-4	4-Chlorotoluene	ND	67	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	67	
107-13-1	Acrylonitrile	ND	67	
71-43-2	Benzene	ND	67	
108-86-1	Bromobenzene	ND	67	
74-97-5	Bromochloromethane	ND	67	
75-27-4	Bromodichloromethane	ND	67	
75-25-2	Bromoform	ND	67	
74-83-9	Bromomethane	ND	67	
75-15-0	Carbon Disulfide	ND	67	
56-23-5	Carbon tetrachloride	ND	67	
108-90-7	Chlorobenzene	ND	67	
75-00-3	Chloroethane	ND	67	
67-66-3	Chloroform	ND	67	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-111_0-.5	Lab Sample ID:	AB34987
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	84%
Dry Weight Extracted:	8.773 grams	Extract Dilution:	50
Wet Weight Extracted:	10.444 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	67	
124-48-1	Dibromochloromethane	ND	67	
74-95-3	Dibromomethane	ND	67	
75-71-8	Dichlorodifluoromethane	ND	67	
60-29-7	Ethyl Ether	ND	67	
100-41-4	Ethylbenzene	ND	67	
87-68-3	Hexachlorobutadiene	ND	67	
98-82-8	Isopropylbenzene	ND	67	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	67	
75-09-2	Methylene Chloride	ND	67	
104-51-8	N-Butylbenzene	ND	67	
103-65-1	N-Propylbenzene	ND	67	
91-20-3	Naphthalene	ND	67	
95-47-6	Ortho Xylene	ND	67	
99-87-6	Para-Isopropyltoluene	ND	67	
135-98-8	Sec-Butylbenzene	ND	67	
100-42-5	Styrene	ND	67	
98-06-6	Tert-Butylbenzene	ND	67	
127-18-4	Tetrachloroethylene	ND	67	
109-99-9	Tetrahydrofuran	ND	67	
108-88-3	Toluene	ND	67	
156-60-5	Trans-1,2-Dichloroethylene	ND	67	
79-01-6	Trichloroethylene	ND	67	
75-69-4	Trichlorofluoromethane	ND	67	
108-05-4	Vinyl Acetate	ND	67	
75-01-4	Vinyl Chloride	ND	67	
10061-01-5	c-1,3-dichloropropene	ND	67	
156-59-2	cis-1,2-Dichloroethylene	ND	67	
10061-02-6	t-1,3-Dichloropropene	ND	67	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	78	78 - 111
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	90	85 - 118

Comments:

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-111_1-2	Lab Sample ID:	AB34988
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	10.872 grams	Extract Dilution:	50
Wet Weight Extracted:	12.496 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	53	
71-55-6	1,1,1-Trichloroethane	ND	53	
79-34-5	1,1,2,2-Tetrachloroethane	ND	53	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	53	
79-00-5	1,1,2-Trichloroethane	ND	53	
75-35-4	1,1-Dichloroethylene	ND	53	
563-58-6	1,1-Dichloropropene	ND	53	
75-34-3	1,1-dichloroethane	ND	53	
87-61-6	1,2,3-Trichlorobenzene	ND	53	
96-18-4	1,2,3-Trichloropropane	ND	53	
120-82-1	1,2,4-Trichlorobenzene	ND	53	
95-63-6	1,2,4-Trimethylbenzene	ND	53	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	53	
106-93-4	1,2-Dibromoethane	ND	53	
95-50-1	1,2-Dichlorobenzene	ND	53	
107-06-2	1,2-Dichloroethane	ND	53	
78-87-5	1,2-Dichloropropane	ND	53	
108-67-8	1,3,5-Trimethylbenzene	ND	53	
541-73-1	1,3-Dichlorobenzene	ND	53	
142-28-9	1,3-Dichloropropane	ND	53	
106-46-7	1,4-Dichlorobenzene	ND	53	
594-20-7	2,2-Dichloropropane	ND	53	
78-93-3	2-Butanone (MEK)	ND	53	
95-49-8	2-Chlorotoluene	ND	53	
591-78-6	2-Hexanone	ND	53	
67-64-1	2-Propanone (acetone)	ND	53	
106-43-4	4-Chlorotoluene	ND	53	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	53	
107-13-1	Acrylonitrile	ND	53	
71-43-2	Benzene	ND	53	
108-86-1	Bromobenzene	ND	53	
74-97-5	Bromochloromethane	ND	53	
75-27-4	Bromodichloromethane	ND	53	
75-25-2	Bromoform	ND	53	
74-83-9	Bromomethane	ND	53	
75-15-0	Carbon Disulfide	ND	53	
56-23-5	Carbon tetrachloride	ND	53	
108-90-7	Chlorobenzene	ND	53	
75-00-3	Chloroethane	ND	53	
67-66-3	Chloroform	ND	53	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-111_1-2	Lab Sample ID:	AB34988
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	87%
Dry Weight Extracted:	10.872 grams	Extract Dilution:	50
Wet Weight Extracted:	12.496 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	53	
124-48-1	Dibromochloromethane	ND	53	
74-95-3	Dibromomethane	ND	53	
75-71-8	Dichlorodifluoromethane	ND	53	
60-29-7	Ethyl Ether	ND	53	
100-41-4	Ethylbenzene	ND	53	
87-68-3	Hexachlorobutadiene	ND	53	
98-82-8	Isopropylbenzene	ND	53	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	53	
75-09-2	Methylene Chloride	ND	53	
104-51-8	N-Butylbenzene	ND	53	
103-65-1	N-Propylbenzene	ND	53	
91-20-3	Naphthalene	ND	53	
95-47-6	Ortho Xylene	ND	53	
99-87-6	Para-Isopropyltoluene	ND	53	
135-98-8	Sec-Butylbenzene	ND	53	
100-42-5	Styrene	ND	53	
98-06-6	Tert-Butylbenzene	ND	53	
127-18-4	Tetrachloroethylene	ND	53	
109-99-9	Tetrahydrofuran	ND	53	
108-88-3	Toluene	ND	53	
156-60-5	Trans-1,2-Dichloroethylene	ND	53	
79-01-6	Trichloroethylene	ND	53	
75-69-4	Trichlorofluoromethane	ND	53	
108-05-4	Vinyl Acetate	ND	53	
75-01-4	Vinyl Chloride	ND	53	
10061-01-5	c-1,3-dichloropropene	ND	53	
156-59-2	cis-1,2-Dichloroethylene	ND	53	
10061-02-6	t-1,3-Dichloropropene	ND	53	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	116	74 - 136
Toluene-D8	91	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-117_0-.5	Lab Sample ID:	AB34989
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	92%
Dry Weight Extracted:	9.726 grams	Extract Dilution:	50
Wet Weight Extracted:	10.572 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	56	
71-55-6	1,1,1-Trichloroethane	ND	56	
79-34-5	1,1,2,2-Tetrachloroethane	ND	56	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	56	
79-00-5	1,1,2-Trichloroethane	ND	56	
75-35-4	1,1-Dichloroethylene	ND	56	
563-58-6	1,1-Dichloropropene	ND	56	
75-34-3	1,1-dichloroethane	ND	56	
87-61-6	1,2,3-Trichlorobenzene	ND	56	
96-18-4	1,2,3-Trichloropropane	ND	56	
120-82-1	1,2,4-Trichlorobenzene	ND	56	
95-63-6	1,2,4-Trimethylbenzene	ND	56	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	56	
106-93-4	1,2-Dibromoethane	ND	56	
95-50-1	1,2-Dichlorobenzene	ND	56	
107-06-2	1,2-Dichloroethane	ND	56	
78-87-5	1,2-Dichloropropane	ND	56	
108-67-8	1,3,5-Trimethylbenzene	ND	56	
541-73-1	1,3-Dichlorobenzene	ND	56	
142-28-9	1,3-Dichloropropane	ND	56	
106-46-7	1,4-Dichlorobenzene	ND	56	
594-20-7	2,2-Dichloropropane	ND	56	
78-93-3	2-Butanone (MEK)	ND	56	
95-49-8	2-Chlorotoluene	ND	56	
591-78-6	2-Hexanone	ND	56	
67-64-1	2-Propanone (acetone)	ND	56	
106-43-4	4-Chlorotoluene	ND	56	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	56	
107-13-1	Acrylonitrile	ND	56	
71-43-2	Benzene	ND	56	
108-86-1	Bromobenzene	ND	56	
74-97-5	Bromochloromethane	ND	56	
75-27-4	Bromodichloromethane	ND	56	
75-25-2	Bromoform	ND	56	
74-83-9	Bromomethane	ND	56	
75-15-0	Carbon Disulfide	ND	56	
56-23-5	Carbon tetrachloride	ND	56	
108-90-7	Chlorobenzene	ND	56	
75-00-3	Chloroethane	ND	56	
67-66-3	Chloroform	ND	56	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-117_0-.5	Lab Sample ID:	AB34989
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	92%
Dry Weight Extracted:	9.726 grams	Extract Dilution:	50
Wet Weight Extracted:	10.572 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	56	
124-48-1	Dibromochloromethane	ND	56	
74-95-3	Dibromomethane	ND	56	
75-71-8	Dichlorodifluoromethane	ND	56	
60-29-7	Ethyl Ether	ND	56	
100-41-4	Ethylbenzene	ND	56	
87-68-3	Hexachlorobutadiene	ND	56	
98-82-8	Isopropylbenzene	ND	56	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	56	
75-09-2	Methylene Chloride	ND	56	
104-51-8	N-Butylbenzene	ND	56	
103-65-1	N-Propylbenzene	ND	56	
91-20-3	Naphthalene	ND	56	
95-47-6	Ortho Xylene	ND	56	
99-87-6	Para-Isopropyltoluene	ND	56	
135-98-8	Sec-Butylbenzene	ND	56	
100-42-5	Styrene	ND	56	
98-06-6	Tert-Butylbenzene	ND	56	
127-18-4	Tetrachloroethylene	ND	56	
109-99-9	Tetrahydrofuran	ND	56	
108-88-3	Toluene	ND	56	
156-60-5	Trans-1,2-Dichloroethylene	ND	56	
79-01-6	Trichloroethylene	ND	56	
75-69-4	Trichlorofluoromethane	ND	56	
108-05-4	Vinyl Acetate	ND	56	
75-01-4	Vinyl Chloride	ND	56	
10061-01-5	c-1,3-dichloropropene	ND	56	
156-59-2	cis-1,2-Dichloroethylene	ND	56	
10061-02-6	t-1,3-Dichloropropene	ND	56	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	90	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-117_1-2	Lab Sample ID:	AB34990
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	89%
Dry Weight Extracted:	9.228 grams	Extract Dilution:	50
Wet Weight Extracted:	10.369 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	60	
71-55-6	1,1,1-Trichloroethane	ND	60	
79-34-5	1,1,2,2-Tetrachloroethane	ND	60	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	60	
79-00-5	1,1,2-Trichloroethane	ND	60	
75-35-4	1,1-Dichloroethylene	ND	60	
563-58-6	1,1-Dichloropropene	ND	60	
75-34-3	1,1-dichloroethane	ND	60	
87-61-6	1,2,3-Trichlorobenzene	ND	60	
96-18-4	1,2,3-Trichloropropane	ND	60	
120-82-1	1,2,4-Trichlorobenzene	ND	60	
95-63-6	1,2,4-Trimethylbenzene	ND	60	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	60	
106-93-4	1,2-Dibromoethane	ND	60	
95-50-1	1,2-Dichlorobenzene	ND	60	
107-06-2	1,2-Dichloroethane	ND	60	
78-87-5	1,2-Dichloropropane	ND	60	
108-67-8	1,3,5-Trimethylbenzene	ND	60	
541-73-1	1,3-Dichlorobenzene	ND	60	
142-28-9	1,3-Dichloropropane	ND	60	
106-46-7	1,4-Dichlorobenzene	ND	60	
594-20-7	2,2-Dichloropropane	ND	60	
78-93-3	2-Butanone (MEK)	ND	60	
95-49-8	2-Chlorotoluene	ND	60	
591-78-6	2-Hexanone	ND	60	
67-64-1	2-Propanone (acetone)	ND	60	
106-43-4	4-Chlorotoluene	ND	60	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	60	
107-13-1	Acrylonitrile	ND	60	
71-43-2	Benzene	ND	60	
108-86-1	Bromobenzene	ND	60	
74-97-5	Bromochloromethane	ND	60	
75-27-4	Bromodichloromethane	ND	60	
75-25-2	Bromoform	ND	60	
74-83-9	Bromomethane	ND	60	
75-15-0	Carbon Disulfide	ND	60	
56-23-5	Carbon tetrachloride	ND	60	
108-90-7	Chlorobenzene	ND	60	
75-00-3	Chloroethane	ND	60	
67-66-3	Chloroform	ND	60	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-117_1-2	Lab Sample ID:	AB34990
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	89%
Dry Weight Extracted:	9.228 grams	Extract Dilution:	50
Wet Weight Extracted:	10.369 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	60	
124-48-1	Dibromochloromethane	ND	60	
74-95-3	Dibromomethane	ND	60	
75-71-8	Dichlorodifluoromethane	ND	60	
60-29-7	Ethyl Ether	ND	60	
100-41-4	Ethylbenzene	ND	60	
87-68-3	Hexachlorobutadiene	ND	60	
98-82-8	Isopropylbenzene	ND	60	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	60	
75-09-2	Methylene Chloride	ND	60	
104-51-8	N-Butylbenzene	ND	60	
103-65-1	N-Propylbenzene	ND	60	
91-20-3	Naphthalene	ND	60	
95-47-6	Ortho Xylene	ND	60	
99-87-6	Para-Isopropyltoluene	ND	60	
135-98-8	Sec-Butylbenzene	ND	60	
100-42-5	Styrene	ND	60	
98-06-6	Tert-Butylbenzene	ND	60	
127-18-4	Tetrachloroethylene	ND	60	
109-99-9	Tetrahydrofuran	ND	60	
108-88-3	Toluene	ND	60	
156-60-5	Trans-1,2-Dichloroethylene	ND	60	
79-01-6	Trichloroethylene	ND	60	
75-69-4	Trichlorofluoromethane	ND	60	
108-05-4	Vinyl Acetate	ND	60	
75-01-4	Vinyl Chloride	ND	60	
10061-01-5	c-1,3-dichloropropene	ND	60	
156-59-2	cis-1,2-Dichloroethylene	ND	60	
10061-02-6	t-1,3-Dichloropropene	ND	60	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	118	74 - 136
Toluene-D8	90	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-138_0-.5	Lab Sample ID:	AB34991
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	72%
Dry Weight Extracted:	7.191 grams	Extract Dilution:	50
Wet Weight Extracted:	9.988 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	89	
71-55-6	1,1,1-Trichloroethane	ND	89	
79-34-5	1,1,2,2-Tetrachloroethane	ND	89	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	89	
79-00-5	1,1,2-Trichloroethane	ND	89	
75-35-4	1,1-Dichloroethylene	ND	89	
563-58-6	1,1-Dichloropropene	ND	89	
75-34-3	1,1-dichloroethane	ND	89	
87-61-6	1,2,3-Trichlorobenzene	ND	89	
96-18-4	1,2,3-Trichloropropane	ND	89	
120-82-1	1,2,4-Trichlorobenzene	ND	89	
95-63-6	1,2,4-Trimethylbenzene	ND	89	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	89	
106-93-4	1,2-Dibromoethane	ND	89	
95-50-1	1,2-Dichlorobenzene	ND	89	
107-06-2	1,2-Dichloroethane	ND	89	
78-87-5	1,2-Dichloropropane	ND	89	
108-67-8	1,3,5-Trimethylbenzene	ND	89	
541-73-1	1,3-Dichlorobenzene	ND	89	
142-28-9	1,3-Dichloropropane	ND	89	
106-46-7	1,4-Dichlorobenzene	ND	89	
594-20-7	2,2-Dichloropropane	ND	89	
78-93-3	2-Butanone (MEK)	ND	89	
95-49-8	2-Chlorotoluene	ND	89	
591-78-6	2-Hexanone	ND	89	
67-64-1	2-Propanone (acetone)	ND	89	
106-43-4	4-Chlorotoluene	ND	89	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	89	
107-13-1	Acrylonitrile	ND	89	
71-43-2	Benzene	ND	89	
108-86-1	Bromobenzene	ND	89	
74-97-5	Bromochloromethane	ND	89	
75-27-4	Bromodichloromethane	ND	89	
75-25-2	Bromoform	ND	89	
74-83-9	Bromomethane	ND	89	
75-15-0	Carbon Disulfide	ND	89	
56-23-5	Carbon tetrachloride	ND	89	
108-90-7	Chlorobenzene	ND	89	
75-00-3	Chloroethane	ND	89	
67-66-3	Chloroform	ND	89	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MHK_SS-138_0-.5	Lab Sample ID:	AB34991
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	72%
Dry Weight Extracted:	7.191 grams	Extract Dilution:	50
Wet Weight Extracted:	9.988 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	89	
124-48-1	Dibromochloromethane	ND	89	
74-95-3	Dibromomethane	ND	89	
75-71-8	Dichlorodifluoromethane	ND	89	
60-29-7	Ethyl Ether	ND	89	
100-41-4	Ethylbenzene	ND	89	
87-68-3	Hexachlorobutadiene	ND	89	
98-82-8	Isopropylbenzene	ND	89	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	89	
75-09-2	Methylene Chloride	ND	89	
104-51-8	N-Butylbenzene	ND	89	
103-65-1	N-Propylbenzene	ND	89	
91-20-3	Naphthalene	ND	89	
95-47-6	Ortho Xylene	ND	89	
99-87-6	Para-Isopropyltoluene	ND	89	
135-98-8	Sec-Butylbenzene	ND	89	
100-42-5	Styrene	ND	89	
98-06-6	Tert-Butylbenzene	ND	89	
127-18-4	Tetrachloroethylene	ND	89	
109-99-9	Tetrahydrofuran	ND	89	
108-88-3	Toluene	ND	89	
156-60-5	Trans-1,2-Dichloroethylene	ND	89	
79-01-6	Trichloroethylene	ND	89	
75-69-4	Trichlorofluoromethane	ND	89	
108-05-4	Vinyl Acetate	ND	89	
75-01-4	Vinyl Chloride	ND	89	
10061-01-5	c-1,3-dichloropropene	ND	89	
156-59-2	cis-1,2-Dichloroethylene	ND	89	
10061-02-6	t-1,3-Dichloropropene	ND	89	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	120	74 - 136
Toluene-D8	90	85 - 118

Comments: The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34992
Date of Collection:	10/1/2012	Matrix	Methanol
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	ND	50	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	ND	50	
87-61-6	1,2,3-Trichlorobenzene	ND	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	50	
106-93-4	1,2-Dibromoethane	ND	50	
95-50-1	1,2-Dichlorobenzene	ND	50	
107-06-2	1,2-Dichloroethane	ND	50	
78-87-5	1,2-Dichloropropane	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	ND	50	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	ND	50	
67-64-1	2-Propanone (acetone)	ND	50	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	50	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	ND	50	
108-86-1	Bromobenzene	ND	50	
74-97-5	Bromochloromethane	ND	50	
75-27-4	Bromodichloromethane	ND	50	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	ND	50	
108-90-7	Chlorobenzene	ND	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	ND	50	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34992
Date of Collection:	10/1/2012	Matrix	Methanol
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	ND	50	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	ND	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	ND	50	
108-38-3/106-42-	M/P Xylene	ND	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	ND	50	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	ND	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	ND	50	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	ND	50	
156-60-5	Trans-1,2-Dichloroethylene	ND	50	
79-01-6	Trichloroethylene	ND	50	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	ND	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	76	78 - 111
1,2-Dichloroethane-D4	117	74 - 136
Toluene-D8	90	85 - 118

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB34992
Date of Collection:	10/1/2012	Matrix	Methanol
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Trip blank sample is reported in ug/L.

The percent recovery for surrogate compound 1,4-bromofluorobenzene did not meet the acceptable QC criteria.

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MLV0081	Lab Sample ID:	AB34993
Date of Collection:	10/23/2012	Matrix	PE-Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	ND	50	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	**1400**	50	
87-61-6	1,2,3-Trichlorobenzene	**2500**	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	**6000**	500	
106-93-4	1,2-Dibromoethane	ND	50	
95-50-1	1,2-Dichlorobenzene	**3600**	50	
107-06-2	1,2-Dichloroethane	**3700**	50	
78-87-5	1,2-Dichloropropane	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	**4200**	500	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	**4400**	50	
67-64-1	2-Propanone (acetone)	**4300**	50	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	**6200**	500	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	**7600**	500	
108-86-1	Bromobenzene	**3500**	50	
74-97-5	Bromochloromethane	**2700**	50	
75-27-4	Bromodichloromethane	**3800**	500	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	**1200**	50	
108-90-7	Chlorobenzene	**3700**	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	**4000**	50	

Mohawk Tannery - Nashua, NH

VOAs in Soil High Level Method

Client Sample ID:	MLV0081	Lab Sample ID:	AB34993
Date of Collection:	10/23/2012	Matrix	PE-Soil
Date of Extraction:	10/24/12	Amount Prepared	5 mL
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	**2700**	50	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	**1500**	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	ND	50	
108-38-3/106-42-	M/P Xylene	**4400**	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	**5200**	500	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	**2700**	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	**6600**	500	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	**1400**	50	
156-60-5	Trans-1,2-Dichloroethylene	**1800**	50	
79-01-6	Trichloroethylene	**5900**	500	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	**3800**	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	101	74 - 136
Toluene-D8	101	85 - 118

Comments: Several compounds are reported from a five-hundred fold dilution.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB34977

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,144	ND	1200	100	74 - 124
1,1,1-Trichloroethane	1,144	ND	960	84	76 - 132
1,1,2,2-Tetrachloroethane	1,144	ND	1200	100	69 - 125
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,144	ND	1000	87	68 - 144
1,1,2-Trichloroethane	1,144	ND	1100	96	75 - 126
1,1-Dichloroethylene	1,144	ND	880	77	65 - 140
1,1-Dichloropropene	1,144	ND	1200	100	81 - 125
1,1-dichloroethane	1,144	ND	970	85	77 - 130
1,2,3-Trichlorobenzene	1,144	ND	1200	100	64 - 125
1,2,3-Trichloropropane	1,144	ND	1300	110	68 - 122
1,2,4-Trichlorobenzene	1,144	ND	1100	96	72 - 120
1,2,4-Trimethylbenzene	1,144	ND	1300	110	81 - 125
1,2-Dibromo-3-Chloropropane	1,144	ND	1100	96	54 - 125
1,2-Dibromoethane	1,144	ND	1200	100	73 - 124
1,2-Dichlorobenzene	1,144	ND	1200	100	81 - 116
1,2-Dichloroethane	1,144	ND	1100	96	74 - 130
1,2-Dichloropropane	1,144	ND	1200	100	78 - 120
1,3,5-Trimethylbenzene	1,144	ND	1300	110	81 - 125
1,3-Dichlorobenzene	1,144	ND	1200	100	82 - 117
1,3-Dichloropropane	1,144	ND	1200	100	76 - 123
1,4-Dichlorobenzene	1,144	ND	1200	100	80 - 116
2,2-Dichloropropane	1,144	ND	900	79	57 - 147
2-Butanone (MEK)	1,144	ND	1100	96	41 - 151
2-Chlorotoluene	1,144	ND	1300	110	82 - 119
2-Hexanone	1,144	ND	1400	120	51 - 148
2-Propanone (acetone)	1,144	ND	950	83	25 - 161
4-Chlorotoluene	1,144	ND	1300	110	82 - 119
4-Methyl-2-Pentanone(MIBK)	1,144	ND	1300	110	62 - 130
Acrylonitrile	1,144	ND	1100	96	67 - 130
Benzene	1,144	ND	1100	96	82 - 124
Bromobenzene	1,144	ND	1200	100	79 - 119
Bromochloromethane	1,144	ND	980	86	79 - 125
Bromodichloromethane	1,144	ND	1100	96	71 - 126
Bromoform	1,144	ND	940	82	56 - 119
Bromomethane	1,144	ND	830	73	37 - 161
Carbon Disulfide	1,144	ND	870	76	63 - 134
Carbon tetrachloride	1,144	ND	1000	87	68 - 136
Chlorobenzene	1,144	ND	1100	96	82 - 126
Chloroethane	1,144	ND	1100	96	57 - 148
Chloroform	1,144	ND	1000	87	78 - 130
Chloromethane	1,144	ND	890	78	56 - 147
Dibromochloromethane	1,144	ND	910	80	62 - 131
Dibromomethane	1,144	ND	1200	100	75 - 122
Dichlorodifluoromethane	1,144	ND	800	70	59 - 131
Ethyl Ether	1,144	ND	1100	96	65 - 138
Ethylbenzene	1,144	ND	1200	100	82 - 122
Hexachlorobutadiene	1,144	ND	1100	96	70 - 130
Isopropylbenzene	1,144	ND	1200	100	82 - 125

M/P Xylene	2,288	ND	2500	110	85 - 120
Methyl-t-Butyl Ether	1,144	ND	980	86	74 - 125
Methylene Chloride	1,144	ND	1000	87	67 - 139
N-Butylbenzene	1,144	ND	1300	110	80 - 129
N-Propylbenzene	1,144	ND	1300	110	81 - 122
Naphthalene	1,144	ND	1100	96	59 - 129
Ortho Xylene	1,144	ND	1100	96	84 - 122
Para-Isopropyltoluene	1,144	ND	1200	100	79 - 129
Sec-Butylbenzene	1,144	ND	1300	110	81 - 126
Styrene	1,144	ND	1100	96	82 - 125
Tert-Butylbenzene	1,144	ND	1200	100	81 - 126
Tetrachloroethylene	1,144	ND	1400	120	74 - 133
Tetrahydrofuran	1,144	ND	1000	87	60 - 132
Toluene	1,144	ND	1100	96	82 - 124
Trans-1,2-Dichloroethylene	1,144	ND	940	82	79 - 127
Trichloroethylene	1,144	ND	1100	96	76 - 124
Trichlorofluoromethane	1,144	ND	1200	100	65 - 144
Vinyl Acetate	1,144	ND	860	75	14 - 152
Vinyl Chloride	1,144	ND	930	81	34 - 142
c-1,3-dichloropropene	1,144	ND	910	80	68 - 133
cis-1,2-Dichloroethylene	1,144	ND	990	87	79 - 131
t-1,3-Dichloropropene	1,144	ND	890	78	65 - 126

Comments:

Sample ID: AB34977

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,144	1200	100	0	40
1,1,1-Trichloroethane	1,144	950	83	1	40
1,1,2,2-Tetrachloroethane	1,144	1200	100	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,144	830	73	18	40
1,1,2-Trichloroethane	1,144	1100	96	0	40
1,1-Dichloroethylene	1,144	880	77	0	52
1,1-Dichloropropene	1,144	1200	100	0	40
1,1-dichloroethane	1,144	960	84	1	40
1,2,3-Trichlorobenzene	1,144	1200	100	0	40
1,2,3-Trichloropropane	1,144	1300	110	0	40
1,2,4-Trichlorobenzene	1,144	1200	100	4	40
1,2,4-Trimethylbenzene	1,144	1300	110	0	40
1,2-Dibromo-3-Chloropropane	1,144	1100	96	0	40
1,2-Dibromoethane	1,144	1200	100	0	40
1,2-Dichlorobenzene	1,144	1200	100	0	40
1,2-Dichloroethane	1,144	1000	87	10	40
1,2-Dichloropropane	1,144	1200	100	0	40
1,3,5-Trimethylbenzene	1,144	1300	110	0	40
1,3-Dichlorobenzene	1,144	1200	100	0	40
1,3-Dichloropropane	1,144	1200	100	0	40
1,4-Dichlorobenzene	1,144	1200	100	0	40
2,2-Dichloropropane	1,144	890	78	1	40
2-Butanone (MEK)	1,144	1100	96	0	40
2-Chlorotoluene	1,144	1300	110	0	40
2-Hexanone	1,144	1400	120	0	40
2-Propanone (acetone)	1,144	910	80	4	40
4-Chlorotoluene	1,144	1200	100	10	40
4-Methyl-2-Pentanone(MIBK)	1,144	1300	110	0	40
Acrylonitrile	1,144	1100	96	0	40
Benzene	1,144	1000	87	10	24
Bromobenzene	1,144	1200	100	0	40
Bromochloromethane	1,144	970	85	1	40
Bromodichloromethane	1,144	1100	96	0	40
Bromoform	1,144	940	82	0	40
Bromomethane	1,144	840	73	0	40
Carbon Disulfide	1,144	870	76	0	40
Carbon tetrachloride	1,144	990	87	0	40
Chlorobenzene	1,144	1000	87	10	34
Chloroethane	1,144	1000	87	10	40
Chloroform	1,144	990	87	0	40
Chloromethane	1,144	880	77	1	40
Dibromochloromethane	1,144	890	78	3	40
Dibromomethane	1,144	1200	100	0	40
Dichlorodifluoromethane	1,144	810	71	1	40
Ethyl Ether	1,144	1000	87	10	40
Ethylbenzene	1,144	1200	100	0	40
Hexachlorobutadiene	1,144	1100	96	0	40
Isopropylbenzene	1,144	1200	100	0	40
M/P Xylene	2,288	2500	110	0	40
Methyl-t-Butyl Ether	1,144	1000	87	1	40
Methylene Chloride	1,144	980	86	1	40
N-Butylbenzene	1,144	1300	110	0	40
N-Propylbenzene	1,144	1300	110	0	40

Naphthalene	1,144	1200	100	4	40
Ortho Xylene	1,144	1100	96	0	40
Para-Isopropyltoluene	1,144	1100	96	4	40
Sec-Butylbenzene	1,144	1300	110	0	40
Styrene	1,144	1100	96	0	40
Tert-Butylbenzene	1,144	1100	96	4	40
Tetrachloroethylene	1,144	1400	120	0	40
Tetrahydrofuran	1,144	1100	96	10	40
Toluene	1,144	1000	87	10	33
Trans-1,2-Dichloroethylene	1,144	940	82	0	40
Trichloroethylene	1,144	1100	96	0	27
Trichlorofluoromethane	1,144	890	78	25	40
Vinyl Acetate	1,144	880	77	3	40
Vinyl Chloride	1,144	910	80	1	40
c-1,3-dichloropropene	1,144	910	80	0	40
cis-1,2-Dichloroethylene	1,144	970	85	2	40
t-1,3-Dichloropropene	1,144	890	78	0	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34977

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	ND	40
1,1,2,2-Tetrachloroethane	ND	ND	ND	40
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	40
1,1,2-Trichloroethane	ND	ND	ND	40
1,1-Dichloroethylene	ND	ND	ND	40
1,1-Dichloropropene	ND	ND	ND	40
1,1-dichloroethane	ND	ND	ND	40
1,2,3-Trichlorobenzene	ND	ND	ND	40
1,2,3-Trichloropropane	ND	ND	ND	40
1,2,4-Trichlorobenzene	ND	ND	ND	40
1,2,4-Trimethylbenzene	ND	ND	ND	40
1,2-Dibromo-3-Chloropropane	ND	ND	ND	40
1,2-Dibromoethane	ND	ND	ND	40
1,2-Dichlorobenzene	ND	ND	ND	40
1,2-Dichloroethane	ND	ND	ND	40
1,2-Dichloropropane	ND	ND	ND	40
1,3,5-Trimethylbenzene	ND	ND	ND	40
1,3-Dichlorobenzene	ND	ND	ND	40
1,3-Dichloropropane	ND	ND	ND	40
1,4-Dichlorobenzene	ND	ND	ND	40
2,2-Dichloropropane	ND	ND	ND	40
2-Butanone (MEK)	ND	ND	ND	40
2-Chlorotoluene	ND	ND	ND	40
2-Hexanone	ND	ND	ND	40
2-Propanone (acetone)	ND	ND	ND	40
4-Chlorotoluene	ND	ND	ND	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	40
Acrylonitrile	ND	ND	ND	40
Benzene	ND	ND	ND	40
Bromobenzene	ND	ND	ND	40
Bromochloromethane	ND	ND	ND	40
Bromodichloromethane	ND	ND	ND	40
Bromoform	ND	ND	ND	40
Bromomethane	ND	ND	ND	40
Carbon Disulfide	ND	ND	ND	40
Carbon tetrachloride	ND	ND	ND	40
Chlorobenzene	ND	ND	ND	40
Chloroethane	ND	ND	ND	40
Chloroform	ND	ND	ND	40
Chloromethane	ND	ND	ND	40
Dibromochloromethane	ND	ND	ND	40
Dibromomethane	ND	ND	ND	40
Dichlorodifluoromethane	ND	ND	ND	40
Ethyl Ether	ND	ND	ND	40
Ethylbenzene	ND	ND	ND	40
Hexachlorobutadiene	ND	ND	ND	40
Isopropylbenzene	ND	ND	ND	40
M/P Xylene	ND	ND	ND	40

Methyl-t-Butyl Ether	ND	ND	ND	40
Methylene Chloride	ND	ND	ND	40
N-Butylbenzene	ND	ND	ND	40
N-Propylbenzene	ND	ND	ND	40
Naphthalene	ND	ND	ND	40
Ortho Xylene	ND	ND	ND	40
Para-Isopropyltoluene	ND	ND	ND	40
Sec-Butylbenzene	ND	ND	ND	40
Styrene	ND	ND	ND	40
Tert-Butylbenzene	ND	ND	ND	40
Tetrachloroethylene	ND	ND	ND	40
Tetrahydrofuran	ND	ND	ND	40
Toluene	ND	ND	ND	40
Trans-1,2-Dichloroethylene	ND	ND	ND	40
Trichloroethylene	ND	ND	ND	40
Trichlorofluoromethane	ND	ND	ND	40
Vinyl Acetate	ND	ND	ND	40
Vinyl Chloride	ND	ND	ND	40
c-1,3-dichloropropene	ND	ND	ND	40
cis-1,2-Dichloroethylene	ND	ND	ND	40
t-1,3-Dichloropropene	ND	ND	ND	40

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	21.0	105	77 - 122
1,1,1-Trichloroethane	20	16.8	84	80 - 128
1,1,2,2-Tetrachloroethane	20	19.9	100	73 - 118
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	17.6	88	59 - 146
1,1,2-Trichloroethane	20	19.1	96	79 - 117
1,1-Dichloroethylene	20	17.8	89	70 - 130
1,1-Dichloropropene	20	19.7	99	79 - 123
1,1-dichloroethane	20	16.9	85	81 - 122
1,2,3-Trichlorobenzene	20	20.9	105	70 - 119
1,2,3-Trichloropropane	20	20.7	104	73 - 114
1,2,4-Trichlorobenzene	20	19.7	99	74 - 120
1,2,4-Trimethylbenzene	20	22.4	112	79 - 123
1,2-Dibromo-3-Chloropropane	20	20.0	100	63 - 124
1,2-Dibromoethane	20	19.7	99	79 - 116
1,2-Dichlorobenzene	20	21.0	105	77 - 117
1,2-Dichloroethane	20	18.5	93	75 - 124
1,2-Dichloropropane	20	19.8	99	80 - 117
1,3,5-Trimethylbenzene	20	22.0	110	80 - 122
1,3-Dichlorobenzene	20	21.0	105	78 - 117
1,3-Dichloropropane	20	20.8	104	79 - 116
1,4-Dichlorobenzene	20	20.4	102	77 - 115
2,2-Dichloropropane	20	15.9	80	64 - 152
2-Butanone (MEK)	20	18.2	91	55 - 144
2-Chlorotoluene	20	21.4	107	79 - 119
2-Hexanone	20	22.9	115	58 - 147
2-Propanone (acetone)	20	19.8	99	37 - 168
4-Chlorotoluene	20	21.6	108	78 - 120
4-Methyl-2-Pentanone(MIBK)	20	20.7	104	68 - 125
Acrylonitrile	20	17.3	87	68 - 124
Benzene	20	18.0	90	80 - 120
Bromobenzene	20	20.2	101	80 - 115
Bromochloromethane	20	17.5	88	81 - 120
Bromodichloromethane	20	20.7	104	77 - 125
Bromoform	20	17.9	90	62 - 127
Bromomethane	20	15.0	75	60 - 139
Carbon Disulfide	20	16.4	82	73 - 129
Carbon tetrachloride	20	18.3	92	73 - 136
Chlorobenzene	20	18.5	93	82 - 119
Chloroethane	20	17.7	89	69 - 130
Chloroform	20	17.6	88	80 - 122
Chloromethane	20	15.8	79	65 - 129
Dibromochloromethane	20	16.8	84	71 - 129
Dibromomethane	20	20.3	102	79 - 115
Dichlorodifluoromethane	20	15.0	75	69 - 126
Ethyl Ether	20	17.6	88	69 - 127
Ethylbenzene	20	21.3	107	80 - 121
Hexachlorobutadiene	20	18.2	91	72 - 124
Isopropylbenzene	20	19.4	97	79 - 124
M/P Xylene	40	43.1	108	81 - 120
Methyl-t-Butyl Ether	20	16.4	82	78 - 120
Methylene Chloride	20	17.4	87	73 - 129
N-Butylbenzene	20	22.4	112	78 - 126

N-Propylbenzene	20	21.7	109	78 - 122
Naphthalene	20	19.0	95	66 - 124
Ortho Xylene	20	18.9	95	81 - 121
Para-Isopropyltoluene	20	19.5	98	77 - 127
Sec-Butylbenzene	20	22.4	112	79 - 124
Styrene	20	19.4	97	82 - 122
Tert-Butylbenzene	20	19.5	98	78 - 124
Tetrachloroethylene	20	23.8	119	77 - 118
Tetrahydrofuran	20	16.9	85	67 - 124
Toluene	20	18.6	93	81 - 120
Trans-1,2-Dichloroethylene	20	16.2	81	80 - 121
Trichloroethylene	20	19.7	99	80 - 117
Trichlorofluoromethane	20	15.6	78	68 - 137
Vinyl Acetate	20	14.4	72	25 - 150
Vinyl Chloride	20	17.3	87	67 - 134
c-1,3-dichloropropene	20	16.1	81	73 - 133
cis-1,2-Dichloroethylene	20	17.2	86	82 - 122
t-1,3-Dichloropropene	20	16.0	80	69 - 127

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20.9	105	1	50
1,1,1-Trichloroethane	17.2	86	2	50
1,1,2,2-Tetrachloroethane	20.3	102	2	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	17.5	88	1	50
1,1,2-Trichloroethane	19.4	97	2	50
1,1-Dichloroethylene	18.4	92	3	52
1,1-Dichloropropene	20.2	101	3	50
1,1-dichloroethane	17.1	86	1	50
1,2,3-Trichlorobenzene	21.2	106	1	50
1,2,3-Trichloropropane	21.8	109	5	50
1,2,4-Trichlorobenzene	19.8	99	1	50
1,2,4-Trimethylbenzene	22.9	115	2	50
1,2-Dibromo-3-Chloropropane	20.3	102	2	50
1,2-Dibromoethane	20.3	102	3	50
1,2-Dichlorobenzene	21.4	107	2	50
1,2-Dichloroethane	18.4	92	1	50
1,2-Dichloropropane	20.3	102	3	50
1,3,5-Trimethylbenzene	22.7	114	3	50
1,3-Dichlorobenzene	21.2	106	1	50
1,3-Dichloropropane	21.1	106	1	50
1,4-Dichlorobenzene	20.7	104	2	50
2,2-Dichloropropane	16.4	82	3	50
2-Butanone (MEK)	18.8	94	3	50
2-Chlorotoluene	21.7	109	1	50
2-Hexanone	23.5	118	3	50
2-Propanone (acetone)	20.1	101	2	50
4-Chlorotoluene	22.0	110	2	50
4-Methyl-2-Pentanone(MIBK)	21.6	108	4	50
Acrylonitrile	18.1	91	5	50
Benzene	18.2	91	1	50
Bromobenzene	20.6	103	2	50
Bromochloromethane	17.7	89	1	50
Bromodichloromethane	21.0	105	1	50
Bromoform	17.8	89	1	50
Bromomethane	12.0	60	22	50
Carbon Disulfide	16.5	83	1	50
Carbon tetrachloride	18.5	93	1	50
Chlorobenzene	18.4	92	1	34
Chloroethane	17.6	88	1	50
Chloroform	17.8	89	1	50
Chloromethane	15.9	80	1	50
Dibromochloromethane	16.8	84	0	50
Dibromomethane	20.8	104	2	50
Dichlorodifluoromethane	15.0	75	0	50
Ethyl Ether	18.2	91	3	50
Ethylbenzene	21.5	108	1	50
Hexachlorobutadiene	18.8	94	3	50
Isopropylbenzene	20.1	101	4	50
M/P Xylene	43.3	108	0	50
Methyl-t-Butyl Ether	17.1	86	4	50
Methylene Chloride	17.4	87	0	50
N-Butylbenzene	22.8	114	2	50
N-Propylbenzene	22.2	111	2	50
Naphthalene	19.7	99	4	50
Ortho Xylene	19.4	97	3	50

Para-Isopropyltoluene	20.0	100	3	50
Sec-Butylbenzene	22.9	115	2	50
Styrene	19.3	97	1	50
Tert-Butylbenzene	19.8	99	2	50
Tetrachloroethylene	24.4	122	3	50
Tetrahydrofuran	17.3	87	2	50
Toluene	18.5	93	1	50
Trans-1,2-Dichloroethylene	16.4	82	1	50
Trichloroethylene	20.2	101	3	27
Trichlorofluoromethane	19.7	99	23	50
Vinyl Acetate	15.1	76	5	50
Vinyl Chloride	17.0	85	2	50
c-1,3-dichloropropene	16.5	83	3	50
cis-1,2-Dichloroethylene	17.4	87	1	50
t-1,3-Dichloropropene	16.3	82	2	50

Samples in Batch: AB34977, AB34978, AB34979, AB34980, AB34981, AB34982, AB34983, AB34984, AB34985, AB34986, AB34987, AB34988, AB34989, AB34990, AB34991, AB34992, AB34993

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-138_1-2	10/23/12	12:24	SO	X	X				2		
	MHK_SS-140_0-.5	10/23/12	12:39	SO	X	X	X			3		
	MHK_SS-140_1-2	10/23/12	12:52	SO	X	X				2		
	MHK_SS-145_0-.5	10/23/12	9:04	SO	X	X	X			3		
	MHK_SS-151_0-.5	10/23/12	10:09	SO	X	X	X			3		
	MHK_SS-152_0-.5	10/23/12	10:20	SO	X	X	X			3		
	MHK_SS-153_0-.5	10/23/12	10:37	SO	X	X	X			3		
	MHK_SS-154_0-.5	10/23/12	11:16	SO	X	X	X			3		
	MHK_SS-155_0-.5	10/23/12	11:30	SO	X	X	X			3		
	OW-201	10/23/12	12:39	SO	X	X	X			3		
	EQUIP BLANK	10/23/12	13:30	AQ	X	X				6		

PN: 1210003 7

PN: 1210003 8

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10-23-12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-139_0-.5	10/22/12	12:10	SO	X	X	X			3		
	MHK_SS-139_1-2	10/22/12	12:20	SO	X	X				2		
	MHK_SS-141_0-.5	10/22/12	12:32	SO	X	X	X			3		
	MHK_SS-143_0-.5	10/22/12	10:40	SO	X	X	X			3		
	MHK_SS-147_0-.5	10/22/12	9:05	SO	X	X	X			3		
	MHK_SS-149_0-.5	10/22/12	8:50	SO	X	X	X			3		
	MHK_SS-111_0-.5	10/23/12	9:43	SO	X	X	X			3		
	MHK_SS-111_1-2	10/23/12	9:50	SO	X	X				2		
	MHK_SS-117_0-.5	10/23/12	10:49	SO	X	X	X			3		
	MHK_SS-117_1-2	10/23/12	11:04	SO	X	X				2		
	MHK_SS-138_0-.5	10/23/12	12:10	SO	X	X	X			3		

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/23/12 15:05	[signature]	10/23/12 1500
[signature]	10/23/12 15:40	[signature]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	TRIP BLANK	01/00/00		AQ	X					2		
	MLV0081	10/23/12	12:20	SO	X					2		
	SS2132	10/23/12	12:20	SO		X				1		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

November 08, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100038
Project: Mohawk Tannery - Nashua, NH
Analysis: Bulk Asbestos Analysis by PLM
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-INGASBSD2.

Analytical Method: Polarized Light Microscope (PLM) with Dispersion Staining.
All quantities are estimated volume percent.

Date Samples Received by the Laboratory: 10/23/12

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340.

Sincerely,

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-149_0-.5	Lab Sample ID:	AB34986
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-111_0-.5	Lab Sample ID:	AB34987
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-117_0-.5	Lab Sample ID:	AB34989
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Yellow/brown fine sand.

No visible fiber bundles.

Client Sample ID:	MHK_SS-138_0-.5	Lab Sample ID:	AB34991
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-156_0-.5	Lab Sample ID:	AB34995
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**Trace**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine gray/brown soil.

Identified a single fiber bundle.

Client Sample ID:	MHK_SS-157_0-.5	Lab Sample ID:	AB34996
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	**2**	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine, dark brown soil.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-158_0-.5	Lab Sample ID:	AB34997
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**2**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine dark brown soil.

Client Sample ID:	MHK_SS-159_0-.5	Lab Sample ID:	AB34998
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**2**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine dark brown soil.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-160_0-.5	Lab Sample ID:	AB34999
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown sandy soil.

No visible fiber bundles.

Client Sample ID:	MHK_SS-161_0-.5	Lab Sample ID:	AB35000
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**1**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark, sandy soil.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-162_0-.5	Lab Sample ID:	AB35001
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	**Trace**	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown, sandy soil.

Identified two fiber bundles.

Client Sample ID:	MHK_SS-163_0-.5	Lab Sample ID:	AB35002
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown sandy soil.
No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-164_0-.5	Lab Sample ID:	AB35003
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-165_0-.5	Lab Sample ID:	AB35004
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-166_0-.5	Lab Sample ID:	AB35005
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-167_0-.5	Lab Sample ID:	AB35006
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine Black soil with small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Laboratory Blank for Bulk Asbestos

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND		
	Amosite	ND		
	Anthophylite	ND		
	Chrysotile	ND		
	Crocidolite	ND		
	Tremolite	ND		

Comments: RTI Stadard #16 used to align PLM.

Client Sample ID:	OW-205	Lab Sample ID:	AB35007
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	11/7/12		
Date of Analysis:	11/8/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown sandy soil with small roots.

No visible fiber bundles.

---

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1505
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-138_1-2	10/23/12	12:24	SO	X	X				2		
	MHK_SS-140_0-.5	10/23/12	12:39	SO	X	X	X			3		
	MHK_SS-140_1-2	10/23/12	12:52	SO	X	X				2		
	MHK_SS-145_0-.5	10/23/12	9:04	SO	X	X	X			3		
	MHK_SS-151_0-.5	10/23/12	10:09	SO	X	X	X			3		
	MHK_SS-152_0-.5	10/23/12	10:20	SO	X	X	X			3		
	MHK_SS-153_0-.5	10/23/12	10:37	SO	X	X	X			3		
	MHK_SS-154_0-.5	10/23/12	11:16	SO	X	X	X			3		
	MHK_SS-155_0-.5	10/23/12	11:30	SO	X	X	X			3		
	OW-201	10/23/12	12:39	SO	X	X	X			3		
	EQUIP BLANK	10/23/12	13:30	AQ	X	X				6		

PN: 1210003 7

PN: 1210003 8

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10-23-12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-139_0-.5	10/22/12	12:10	SO	X	X	X			3		
	MHK_SS-139_1-2	10/22/12	12:20	SO	X	X				2		
	MHK_SS-141_0-.5	10/22/12	12:32	SO	X	X	X			3		
	MHK_SS-143_0-.5	10/22/12	10:40	SO	X	X	X			3		
	MHK_SS-147_0-.5	10/22/12	9:05	SO	X	X	X			3		
	MHK_SS-149_0-.5	10/22/12	8:50	SO	X	X	X			3		
	MHK_SS-111_0-.5	10/23/12	9:43	SO	X	X	X			3		
	MHK_SS-111_1-2	10/23/12	9:50	SO	X	X				2		
	MHK_SS-117_0-.5	10/23/12	10:49	SO	X	X	X			3		
	MHK_SS-117_1-2	10/23/12	11:04	SO	X	X				2		
	MHK_SS-138_0-.5	10/23/12	12:10	SO	X	X	X			3		

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1500
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	TRIP BLANK	01/00/00		AQ	X					2		
	MLV0081	10/23/12	12:20	SO	X					2		
	SS2132	10/23/12	12:20	SO		X				1		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 30, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100038
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in Soils Medium Level
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAS3.

Samples were prepared using pressurized fluid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this analysis is based on US EPA SW-846 methods 3545A and 8270C and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-154_0-.5	Lab Sample ID:	AB34977
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	27.782 grams	Extract Dilution:	1
Wet Weight Extracted:	30.734 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	90	
120-82-1	1,2,4-Trichlorobenzene	ND	90	
95-50-1	1,2-Dichlorobenzene	ND	90	
541-73-1	1,3-Dichlorobenzene	ND	90	
99-65-0	1,3-Dinitrobenzene	ND	90	
106-46-7	1,4-Dichlorobenzene	ND	90	
130-15-4	1,4-Naphthoquinone	ND	90	
90-12-0	1-Methylnaphthalene	ND	90	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	90	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	90	
95-95-4	2,4,5-Trichlorophenol	ND	90	
88-06-2	2,4,6-Trichlorophenol	ND	90	
120-83-2	2,4-Dichlorophenol	ND	90	
51-28-5	2,4-Dinitrophenol	ND	180	
121-14-2	2,4-Dinitrotoluene	ND	90	
105-67-9	2,4-dimethylphenol	ND	90	
87-65-0	2,6-Dichlorophenol	ND	90	
606-20-2	2,6-Dinitrotoluene	ND	90	
91-58-7	2-Chloronaphthalene	ND	90	
95-57-8	2-Chlorophenol	ND	90	
91-57-6	2-Methylnaphthalene	ND	90	
95-48-7	2-Methylphenol	ND	90	
88-74-4	2-Nitroaniline	ND	90	
88-75-5	2-Nitrophenol	ND	90	
108-39-4/106-44-	3&4-Methylphenol	ND	180	
91-94-1	3,3'-Dichlorobenzidine	ND	90	
56-49-5	3-Methylcholanthrene	ND	90	
99-09-2	3-Nitroaniline	ND	90	
534-52-1	4,6-Dinitro-2-methylphenol	ND	180	
101-55-3	4-Bromophenyl-phenylether	ND	90	
59-50-7	4-Chloro-3-methylphenol	ND	90	
106-47-8	4-Chloroaniline	ND	90	
7005-72-3	4-Chlorophenyl-phenylether	ND	90	
100-01-6	4-Nitroaniline	ND	90	
100-02-7	4-Nitrophenol	ND	90	
56-57-5	4-nitroquinoline-1-oxide	ND	360	
83-32-9	Acenaphthene	ND	90	
208-96-8	Acenaphthylene	ND	90	
98-86-2	Acetophenone	ND	90	
62-53-3	Aniline	ND	90	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-154_0-.5	Lab Sample ID:	AB34977
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	27.782 grams	Extract Dilution:	1
Wet Weight Extracted:	30.734 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	90	
140-57-8	Aramite	ND	90	
103-33-3	Azobenzene	ND	90	
92-87-5	Benzidine	ND	90	
56-55-3	Benzo(a)anthracene	ND	90	
50-32-8	Benzo(a)pyrene	ND	90	
205-99-2	Benzo(b)fluoranthene	ND	90	
191-24-2	Benzo(g,h,i)perylene	ND	90	
207-08-9	Benzo(k)fluoranthene	ND	90	
65-85-0	Benzoic acid	ND	180	
100-51-6	Benzyl alcohol	ND	90	
111-44-4	Bis(2-Chloroethyl)ether	ND	90	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	90	
85-68-7	Butylbenzylphthalate	ND	90	
86-74-8	Carbazole	ND	90	
510-15-6	Chlorobenzilate	ND	90	
218-01-9	Chrysene	ND	90	
84-74-2	Di-n-butylphthalate	ND	90	
117-84-0	Di-n-octyl phthalate	ND	90	
53-70-3	Dibenz(a,h)anthracene	ND	90	
132-64-9	Dibenzofuran	ND	90	
84-66-2	Diethylphthalate	ND	90	
131-11-3	Dimethyl phthalate	ND	90	
88-85-7	Dinoseb	ND	180	
62-50-0	Ethyl methanesulfonate	ND	90	
206-44-0	Fluoranthene	ND	90	
86-73-7	Fluorene	ND	90	
118-74-1	Hexachlorobenzene	ND	90	
87-68-3	Hexachlorobutadiene	ND	90	
77-47-4	Hexachlorocyclopentadiene	ND	90	
67-72-1	Hexachloroethane	ND	90	
1888-71-7	Hexachloropropene	ND	90	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	90	
465-73-6	Isodrin	ND	90	
78-59-1	Isophorone	ND	90	
120-58-1	Isosafrole	ND	90	
143-50-0	Kepone	ND	90	
66-27-3	Methyl methanesulfonate	ND	90	
86-30-6	N-Nitrosodiphenylamine	ND	90	
621-64-7	N-nitroso-di-n-propylamine	ND	90	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-154_0-.5	Lab Sample ID:	AB34977
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	27.782 grams	Extract Dilution:	1
Wet Weight Extracted:	30.734 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	90	
91-20-3	Naphthalene	ND	90	
98-95-3	Nitrobenzene	ND	90	
608-93-5	Pentachlorobenzene	ND	90	
82-68-8	Pentachloronitrobenzene	ND	90	
87-86-5	Pentachlorophenol	ND	90	
62-44-2	Phenacetin	ND	90	
85-01-8	Phenanthrene	ND	90	
108-95-2	Phenol	ND	90	
129-00-0	Pyrene	ND	90	
110-86-1	Pyridine	ND	90	
94-59-7	Safrole	ND	90	
111-91-1	bis(-2-Chloroethoxy)methane	ND	90	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	78	22 - 97
Phenol-d6 (SS2)	75	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	78	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	30.168 grams	Extract Dilution:	1
Wet Weight Extracted:	30.201 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	83	
120-82-1	1,2,4-Trichlorobenzene	ND	83	
95-50-1	1,2-Dichlorobenzene	ND	83	
541-73-1	1,3-Dichlorobenzene	ND	83	
99-65-0	1,3-Dinitrobenzene	ND	83	
106-46-7	1,4-Dichlorobenzene	ND	83	
130-15-4	1,4-Naphthoquinone	ND	83	
90-12-0	1-Methylnaphthalene	ND	83	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	83	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	83	
95-95-4	2,4,5-Trichlorophenol	ND	83	
88-06-2	2,4,6-Trichlorophenol	ND	83	
120-83-2	2,4-Dichlorophenol	ND	83	
51-28-5	2,4-Dinitrophenol	ND	170	
121-14-2	2,4-Dinitrotoluene	ND	83	
105-67-9	2,4-dimethylphenol	ND	83	
87-65-0	2,6-Dichlorophenol	ND	83	
606-20-2	2,6-Dinitrotoluene	ND	83	
91-58-7	2-Chloronaphthalene	ND	83	
95-57-8	2-Chlorophenol	ND	83	
91-57-6	2-Methylnaphthalene	ND	83	
95-48-7	2-Methylphenol	ND	83	
88-74-4	2-Nitroaniline	ND	83	
88-75-5	2-Nitrophenol	ND	83	
108-39-4/106-44-	3&4-Methylphenol	ND	170	
91-94-1	3,3'-Dichlorobenzidine	ND	83	
56-49-5	3-Methylcholanthrene	ND	83	
99-09-2	3-Nitroaniline	ND	83	
534-52-1	4,6-Dinitro-2-methylphenol	ND	170	
101-55-3	4-Bromophenyl-phenylether	ND	83	
59-50-7	4-Chloro-3-methylphenol	ND	83	
106-47-8	4-Chloroaniline	ND	83	
7005-72-3	4-Chlorophenyl-phenylether	ND	83	
100-01-6	4-Nitroaniline	ND	83	
100-02-7	4-Nitrophenol	ND	83	
56-57-5	4-nitroquinoline-1-oxide	ND	332	
83-32-9	Acenaphthene	ND	83	
208-96-8	Acenaphthylene	ND	83	
98-86-2	Acetophenone	ND	83	
62-53-3	Aniline	ND	83	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	30.168 grams	Extract Dilution:	1
Wet Weight Extracted:	30.201 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	83	
140-57-8	Aramite	ND	83	
103-33-3	Azobenzene	ND	83	
92-87-5	Benzidine	ND	83	
56-55-3	Benzo(a)anthracene	ND	83	
50-32-8	Benzo(a)pyrene	ND	83	
205-99-2	Benzo(b)fluoranthene	ND	83	
191-24-2	Benzo(g,h,i)perylene	ND	83	
207-08-9	Benzo(k)fluoranthene	ND	83	
65-85-0	Benzoic acid	ND	170	
100-51-6	Benzyl alcohol	ND	83	
111-44-4	Bis(2-Chloroethyl)ether	ND	83	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	83	
85-68-7	Butylbenzylphthalate	ND	83	
86-74-8	Carbazole	ND	83	
510-15-6	Chlorobenzilate	ND	83	
218-01-9	Chrysene	ND	83	
84-74-2	Di-n-butylphthalate	ND	83	
117-84-0	Di-n-octyl phthalate	ND	83	
53-70-3	Dibenz(a,h)anthracene	ND	83	
132-64-9	Dibenzofuran	ND	83	
84-66-2	Diethylphthalate	ND	83	
131-11-3	Dimethyl phthalate	ND	83	
88-85-7	Dinoseb	ND	83	
62-50-0	Ethyl methanesulfonate	ND	83	
206-44-0	Fluoranthene	ND	83	
86-73-7	Fluorene	ND	83	
118-74-1	Hexachlorobenzene	ND	83	
87-68-3	Hexachlorobutadiene	ND	83	
77-47-4	Hexachlorocyclopentadiene	ND	83	
67-72-1	Hexachloroethane	ND	83	
1888-71-7	Hexachloropropene	ND	83	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	83	
465-73-6	Isodrin	ND	83	
78-59-1	Isophorone	ND	83	
120-58-1	Isosafrole	ND	83	
143-50-0	Kepone	ND	83	
66-27-3	Methyl methanesulfonate	ND	83	
86-30-6	N-Nitrosodiphenylamine	ND	83	
621-64-7	N-nitroso-di-n-propylamine	ND	83	

Mohawk Tannery - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	30.168 grams	Extract Dilution:	1
Wet Weight Extracted:	30.201 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	83	
91-20-3	Naphthalene	ND	83	
98-95-3	Nitrobenzene	ND	83	
608-93-5	Pentachlorobenzene	ND	83	
82-68-8	Pentachloronitrobenzene	ND	83	
87-86-5	Pentachlorophenol	ND	83	
62-44-2	Phenacetin	ND	83	
85-01-8	Phenanthrene	ND	83	
108-95-2	Phenol	ND	83	
129-00-0	Pyrene	ND	83	
110-86-1	Pyridine	ND	83	
94-59-7	Safrole	ND	83	
111-91-1	bis(-2-Chloroethoxy)methane	ND	83	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	72	22 - 97
Phenol-d6 (SS2)	69	23 - 99
Nitrobenzene-d5 (SS3)	63	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	56	12 - 127
p-Terphenyl-d14 (SS6)	87	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-155_0-.5	Lab Sample ID:	AB34978
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	23.686 grams	Extract Dilution:	1
Wet Weight Extracted:	26.453 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	420	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-155_0-.5	Lab Sample ID:	AB34978
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	23.686 grams	Extract Dilution:	1
Wet Weight Extracted:	26.453 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-155_0-.5	Lab Sample ID:	AB34978
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	90%
Dry Weight Extracted:	23.686 grams	Extract Dilution:	1
Wet Weight Extracted:	26.453 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	58	22 - 97
Phenol-d6 (SS2)	58	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	55	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	OW-201	Lab Sample ID:	AB34979
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	88%
Dry Weight Extracted:	22.759 grams	Extract Dilution:	1
Wet Weight Extracted:	25.740 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	440	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	OW-201	Lab Sample ID:	AB34979
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	88%
Dry Weight Extracted:	22.759 grams	Extract Dilution:	1
Wet Weight Extracted:	25.740 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	**130**	110	
191-24-2	Benzo(g,h,i)perylene	**130**	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	**350**	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	**130**	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**180**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	OW-201	Lab Sample ID:	AB34979
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	88%
Dry Weight Extracted:	22.759 grams	Extract Dilution:	1
Wet Weight Extracted:	25.740 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	**120**	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**190**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-139_0-.5	Lab Sample ID:	AB34981
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	23.014 grams	Extract Dilution:	1
Wet Weight Extracted:	27.233 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-139_0-.5	Lab Sample ID:	AB34981
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	23.014 grams	Extract Dilution:	1
Wet Weight Extracted:	27.233 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-139_0-.5	Lab Sample ID:	AB34981
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	85%
Dry Weight Extracted:	23.014 grams	Extract Dilution:	1
Wet Weight Extracted:	27.233 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-139_1-2	Lab Sample ID:	AB34982
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	23.831 grams	Extract Dilution:	1
Wet Weight Extracted:	27.746 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	100	
541-73-1	1,3-Dichlorobenzene	ND	100	
99-65-0	1,3-Dinitrobenzene	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	100	
130-15-4	1,4-Naphthoquinone	ND	100	
90-12-0	1-Methylnaphthalene	ND	100	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	100	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	100	
95-95-4	2,4,5-Trichlorophenol	ND	100	
88-06-2	2,4,6-Trichlorophenol	ND	100	
120-83-2	2,4-Dichlorophenol	ND	100	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	100	
105-67-9	2,4-dimethylphenol	ND	100	
87-65-0	2,6-Dichlorophenol	ND	100	
606-20-2	2,6-Dinitrotoluene	ND	100	
91-58-7	2-Chloronaphthalene	ND	100	
95-57-8	2-Chlorophenol	ND	100	
91-57-6	2-Methylnaphthalene	ND	100	
95-48-7	2-Methylphenol	ND	100	
88-74-4	2-Nitroaniline	ND	100	
88-75-5	2-Nitrophenol	ND	100	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	100	
56-49-5	3-Methylcholanthrene	ND	100	
99-09-2	3-Nitroaniline	ND	100	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	100	
59-50-7	4-Chloro-3-methylphenol	ND	100	
106-47-8	4-Chloroaniline	ND	100	
7005-72-3	4-Chlorophenyl-phenylether	ND	100	
100-01-6	4-Nitroaniline	ND	100	
100-02-7	4-Nitrophenol	ND	100	
56-57-5	4-nitroquinoline-1-oxide	ND	420	
83-32-9	Acenaphthene	ND	100	
208-96-8	Acenaphthylene	ND	100	
98-86-2	Acetophenone	ND	100	
62-53-3	Aniline	ND	100	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-139_1-2	Lab Sample ID:	AB34982
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	23.831 grams	Extract Dilution:	1
Wet Weight Extracted:	27.746 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	100	
140-57-8	Aramite	ND	100	
103-33-3	Azobenzene	ND	100	
92-87-5	Benzidine	ND	100	
56-55-3	Benzo(a)anthracene	ND	100	
50-32-8	Benzo(a)pyrene	ND	100	
205-99-2	Benzo(b)fluoranthene	ND	100	
191-24-2	Benzo(g,h,i)perylene	ND	100	
207-08-9	Benzo(k)fluoranthene	ND	100	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	100	
111-44-4	Bis(2-Chloroethyl)ether	ND	100	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	100	
85-68-7	Butylbenzylphthalate	ND	100	
86-74-8	Carbazole	ND	100	
510-15-6	Chlorobenzilate	ND	100	
218-01-9	Chrysene	ND	100	
84-74-2	Di-n-butylphthalate	ND	100	
117-84-0	Di-n-octyl phthalate	ND	100	
53-70-3	Dibenz(a,h)anthracene	ND	100	
132-64-9	Dibenzofuran	ND	100	
84-66-2	Diethylphthalate	ND	100	
131-11-3	Dimethyl phthalate	ND	100	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	100	
206-44-0	Fluoranthene	ND	100	
86-73-7	Fluorene	ND	100	
118-74-1	Hexachlorobenzene	ND	100	
87-68-3	Hexachlorobutadiene	ND	100	
77-47-4	Hexachlorocyclopentadiene	ND	100	
67-72-1	Hexachloroethane	ND	100	
1888-71-7	Hexachloropropene	ND	100	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	
465-73-6	Isodrin	ND	100	
78-59-1	Isophorone	ND	100	
120-58-1	Isosafrole	ND	100	
143-50-0	Kepone	ND	100	
66-27-3	Methyl methanesulfonate	ND	100	
86-30-6	N-Nitrosodiphenylamine	ND	100	
621-64-7	N-nitroso-di-n-propylamine	ND	100	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-139_1-2	Lab Sample ID:	AB34982
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	23.831 grams	Extract Dilution:	1
Wet Weight Extracted:	27.746 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	100	
91-20-3	Naphthalene	ND	100	
98-95-3	Nitrobenzene	ND	100	
608-93-5	Pentachlorobenzene	ND	100	
82-68-8	Pentachloronitrobenzene	ND	100	
87-86-5	Pentachlorophenol	ND	100	
62-44-2	Phenacetin	ND	100	
85-01-8	Phenanthrene	ND	100	
108-95-2	Phenol	ND	100	
129-00-0	Pyrene	ND	100	
110-86-1	Pyridine	ND	100	
94-59-7	Safrole	ND	100	
111-91-1	bis(-2-Chloroethoxy)methane	ND	100	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	63	22 - 97
Phenol-d6 (SS2)	63	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	65	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-141_0-.5	Lab Sample ID:	AB34983
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	22.116 grams	Extract Dilution:	1
Wet Weight Extracted:	25.812 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	450	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-141_0-.5	Lab Sample ID:	AB34983
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	22.116 grams	Extract Dilution:	1
Wet Weight Extracted:	25.812 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	**120**	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	**310**	230	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**170**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-141_0-.5	Lab Sample ID:	AB34983
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	86%
Dry Weight Extracted:	22.116 grams	Extract Dilution:	1
Wet Weight Extracted:	25.812 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**150**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	70	22 - 97
Phenol-d6 (SS2)	70	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	68	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-143_0-.5	Lab Sample ID:	AB34984
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	79%
Dry Weight Extracted:	17.248 grams	Extract Dilution:	1
Wet Weight Extracted:	21.733 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	
120-82-1	1,2,4-Trichlorobenzene	ND	140	
95-50-1	1,2-Dichlorobenzene	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	140	
99-65-0	1,3-Dinitrobenzene	ND	140	
106-46-7	1,4-Dichlorobenzene	ND	140	
130-15-4	1,4-Naphthoquinone	ND	140	
90-12-0	1-Methylnaphthalene	ND	140	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	140	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	
95-95-4	2,4,5-Trichlorophenol	ND	140	
88-06-2	2,4,6-Trichlorophenol	ND	140	
120-83-2	2,4-Dichlorophenol	ND	140	
51-28-5	2,4-Dinitrophenol	ND	290	
121-14-2	2,4-Dinitrotoluene	ND	140	
105-67-9	2,4-dimethylphenol	ND	140	
87-65-0	2,6-Dichlorophenol	ND	140	
606-20-2	2,6-Dinitrotoluene	ND	140	
91-58-7	2-Chloronaphthalene	ND	140	
95-57-8	2-Chlorophenol	ND	140	
91-57-6	2-Methylnaphthalene	ND	140	
95-48-7	2-Methylphenol	ND	140	
88-74-4	2-Nitroaniline	ND	140	
88-75-5	2-Nitrophenol	ND	140	
108-39-4/106-44-	3&4-Methylphenol	ND	290	
91-94-1	3,3'-Dichlorobenzidine	ND	140	
56-49-5	3-Methylcholanthrene	ND	140	
99-09-2	3-Nitroaniline	ND	140	
534-52-1	4,6-Dinitro-2-methylphenol	ND	290	
101-55-3	4-Bromophenyl-phenylether	ND	140	
59-50-7	4-Chloro-3-methylphenol	ND	140	
106-47-8	4-Chloroaniline	ND	140	
7005-72-3	4-Chlorophenyl-phenylether	ND	140	
100-01-6	4-Nitroaniline	ND	140	
100-02-7	4-Nitrophenol	ND	140	
56-57-5	4-nitroquinoline-1-oxide	ND	580	
83-32-9	Acenaphthene	ND	140	
208-96-8	Acenaphthylene	ND	140	
98-86-2	Acetophenone	ND	140	
62-53-3	Aniline	ND	140	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-143_0-.5	Lab Sample ID:	AB34984
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	79%
Dry Weight Extracted:	17.248 grams	Extract Dilution:	1
Wet Weight Extracted:	21.733 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	140	
140-57-8	Aramite	ND	140	
103-33-3	Azobenzene	ND	140	
92-87-5	Benzidine	ND	140	
56-55-3	Benzo(a)anthracene	**280**	140	
50-32-8	Benzo(a)pyrene	**330**	140	
205-99-2	Benzo(b)fluoranthene	**490**	140	
191-24-2	Benzo(g,h,i)perylene	**270**	140	
207-08-9	Benzo(k)fluoranthene	**160**	140	
65-85-0	Benzoic acid	**460**	290	
100-51-6	Benzyl alcohol	ND	140	
111-44-4	Bis(2-Chloroethyl)ether	ND	140	
117-81-7	Bis(2-ethylhexyl)phthalate	**320**	140	
85-68-7	Butylbenzylphthalate	ND	140	
86-74-8	Carbazole	ND	140	
510-15-6	Chlorobenzilate	ND	140	
218-01-9	Chrysene	**430**	140	
84-74-2	Di-n-butylphthalate	ND	140	
117-84-0	Di-n-octyl phthalate	ND	140	
53-70-3	Dibenz(a,h)anthracene	ND	140	
132-64-9	Dibenzofuran	ND	140	
84-66-2	Diethylphthalate	ND	140	
131-11-3	Dimethyl phthalate	ND	140	
88-85-7	Dinoseb	ND	290	
62-50-0	Ethyl methanesulfonate	ND	140	
206-44-0	Fluoranthene	**620**	140	
86-73-7	Fluorene	ND	140	
118-74-1	Hexachlorobenzene	ND	140	
87-68-3	Hexachlorobutadiene	ND	140	
77-47-4	Hexachlorocyclopentadiene	ND	140	
67-72-1	Hexachloroethane	ND	140	
1888-71-7	Hexachloropropene	ND	140	
193-39-5	Indeno(1,2,3-cd)pyrene	**240**	140	
465-73-6	Isodrin	ND	140	
78-59-1	Isophorone	ND	140	
120-58-1	Isosafrole	ND	140	
143-50-0	Kepone	ND	140	
66-27-3	Methyl methanesulfonate	ND	140	
86-30-6	N-Nitrosodiphenylamine	ND	140	
621-64-7	N-nitroso-di-n-propylamine	ND	140	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-143_0-.5	Lab Sample ID:	AB34984
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	79%
Dry Weight Extracted:	17.248 grams	Extract Dilution:	1
Wet Weight Extracted:	21.733 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	140	
91-20-3	Naphthalene	ND	140	
98-95-3	Nitrobenzene	ND	140	
608-93-5	Pentachlorobenzene	ND	140	
82-68-8	Pentachloronitrobenzene	ND	140	
87-86-5	Pentachlorophenol	ND	140	
62-44-2	Phenacetin	ND	140	
85-01-8	Phenanthrene	**300**	140	
108-95-2	Phenol	ND	140	
129-00-0	Pyrene	**530**	140	
110-86-1	Pyridine	ND	140	
94-59-7	Safrole	ND	140	
111-91-1	bis(-2-Chloroethoxy)methane	ND	140	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	55	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	53	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-147_0-.5	Lab Sample ID:	AB34985
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	56%
Dry Weight Extracted:	13.242 grams	Extract Dilution:	1
Wet Weight Extracted:	23.489 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	
120-82-1	1,2,4-Trichlorobenzene	ND	190	
95-50-1	1,2-Dichlorobenzene	ND	190	
541-73-1	1,3-Dichlorobenzene	ND	190	
99-65-0	1,3-Dinitrobenzene	ND	190	
106-46-7	1,4-Dichlorobenzene	ND	190	
130-15-4	1,4-Naphthoquinone	ND	190	
90-12-0	1-Methylnaphthalene	ND	190	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	190	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	
95-95-4	2,4,5-Trichlorophenol	ND	190	
88-06-2	2,4,6-Trichlorophenol	ND	190	
120-83-2	2,4-Dichlorophenol	ND	190	
51-28-5	2,4-Dinitrophenol	ND	380	
121-14-2	2,4-Dinitrotoluene	ND	190	
105-67-9	2,4-dimethylphenol	ND	190	
87-65-0	2,6-Dichlorophenol	ND	190	
606-20-2	2,6-Dinitrotoluene	ND	190	
91-58-7	2-Chloronaphthalene	ND	190	
95-57-8	2-Chlorophenol	ND	190	
91-57-6	2-Methylnaphthalene	ND	190	
95-48-7	2-Methylphenol	ND	190	
88-74-4	2-Nitroaniline	ND	190	
88-75-5	2-Nitrophenol	ND	190	
108-39-4/106-44-	3&4-Methylphenol	ND	380	
91-94-1	3,3'-Dichlorobenzidine	ND	190	
56-49-5	3-Methylcholanthrene	ND	190	
99-09-2	3-Nitroaniline	ND	190	
534-52-1	4,6-Dinitro-2-methylphenol	ND	380	
101-55-3	4-Bromophenyl-phenylether	ND	190	
59-50-7	4-Chloro-3-methylphenol	ND	190	
106-47-8	4-Chloroaniline	ND	190	
7005-72-3	4-Chlorophenyl-phenylether	ND	190	
100-01-6	4-Nitroaniline	ND	190	
100-02-7	4-Nitrophenol	ND	190	
56-57-5	4-nitroquinoline-1-oxide	ND	760	
83-32-9	Acenaphthene	ND	190	
208-96-8	Acenaphthylene	ND	190	
98-86-2	Acetophenone	ND	190	
62-53-3	Aniline	ND	190	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-147_0-.5	Lab Sample ID:	AB34985
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	56%
Dry Weight Extracted:	13.242 grams	Extract Dilution:	1
Wet Weight Extracted:	23.489 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	190	
140-57-8	Aramite	ND	190	
103-33-3	Azobenzene	ND	190	
92-87-5	Benzidine	ND	190	
56-55-3	Benzo(a)anthracene	**400**	190	
50-32-8	Benzo(a)pyrene	**480**	190	
205-99-2	Benzo(b)fluoranthene	**740**	190	
191-24-2	Benzo(g,h,i)perylene	**430**	190	
207-08-9	Benzo(k)fluoranthene	**280**	190	
65-85-0	Benzoic acid	**690**	380	
100-51-6	Benzyl alcohol	ND	190	
111-44-4	Bis(2-Chloroethyl)ether	ND	190	
117-81-7	Bis(2-ethylhexyl)phthalate	**1500**	190	
85-68-7	Butylbenzylphthalate	ND	190	
86-74-8	Carbazole	ND	190	
510-15-6	Chlorobenzilate	ND	190	
218-01-9	Chrysene	**610**	190	
84-74-2	Di-n-butylphthalate	ND	190	
117-84-0	Di-n-octyl phthalate	ND	190	
53-70-3	Dibenz(a,h)anthracene	ND	190	
132-64-9	Dibenzofuran	ND	190	
84-66-2	Diethylphthalate	ND	190	
131-11-3	Dimethyl phthalate	ND	190	
88-85-7	Dinoseb	ND	380	
62-50-0	Ethyl methanesulfonate	ND	190	
206-44-0	Fluoranthene	**940**	190	
86-73-7	Fluorene	ND	190	
118-74-1	Hexachlorobenzene	ND	190	
87-68-3	Hexachlorobutadiene	ND	190	
77-47-4	Hexachlorocyclopentadiene	ND	190	
67-72-1	Hexachloroethane	ND	190	
1888-71-7	Hexachloropropene	ND	190	
193-39-5	Indeno(1,2,3-cd)pyrene	**360**	190	
465-73-6	Isodrin	ND	190	
78-59-1	Isophorone	ND	190	
120-58-1	Isosafrole	ND	190	
143-50-0	Kepone	ND	190	
66-27-3	Methyl methanesulfonate	ND	190	
86-30-6	N-Nitrosodiphenylamine	ND	190	
621-64-7	N-nitroso-di-n-propylamine	ND	190	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-147_0-.5	Lab Sample ID:	AB34985
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	56%
Dry Weight Extracted:	13.242 grams	Extract Dilution:	1
Wet Weight Extracted:	23.489 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	190	
91-20-3	Naphthalene	ND	190	
98-95-3	Nitrobenzene	ND	190	
608-93-5	Pentachlorobenzene	ND	190	
82-68-8	Pentachloronitrobenzene	ND	190	
87-86-5	Pentachlorophenol	ND	190	
62-44-2	Phenacetin	ND	190	
85-01-8	Phenanthrene	**530**	190	
108-95-2	Phenol	ND	190	
129-00-0	Pyrene	**910**	190	
110-86-1	Pyridine	ND	190	
94-59-7	Safrole	ND	190	
111-91-1	bis(-2-Chloroethoxy)methane	ND	190	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	55	22 - 97
Phenol-d6 (SS2)	63	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	63	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-149_0-.5	Lab Sample ID:	AB34986
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	22.352 grams	Extract Dilution:	1
Wet Weight Extracted:	25.937 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	450	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-149_0-.5	Lab Sample ID:	AB34986
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	22.352 grams	Extract Dilution:	1
Wet Weight Extracted:	25.937 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	**130**	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	**380**	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	**230**	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	**160**	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-149_0-.5	Lab Sample ID:	AB34986
Date of Collection:	10/22/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	86%
Dry Weight Extracted:	22.352 grams	Extract Dilution:	1
Wet Weight Extracted:	25.937 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	**140**	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	78	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-111_0-.5	Lab Sample ID:	AB34987
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	84%
Dry Weight Extracted:	21.345 grams	Extract Dilution:	1
Wet Weight Extracted:	25.525 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	120	
120-82-1	1,2,4-Trichlorobenzene	ND	120	
95-50-1	1,2-Dichlorobenzene	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	120	
99-65-0	1,3-Dinitrobenzene	ND	120	
106-46-7	1,4-Dichlorobenzene	ND	120	
130-15-4	1,4-Naphthoquinone	ND	120	
90-12-0	1-Methylnaphthalene	ND	120	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	120	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	120	
95-95-4	2,4,5-Trichlorophenol	ND	120	
88-06-2	2,4,6-Trichlorophenol	ND	120	
120-83-2	2,4-Dichlorophenol	ND	120	
51-28-5	2,4-Dinitrophenol	ND	230	
121-14-2	2,4-Dinitrotoluene	ND	120	
105-67-9	2,4-dimethylphenol	ND	120	
87-65-0	2,6-Dichlorophenol	ND	120	
606-20-2	2,6-Dinitrotoluene	ND	120	
91-58-7	2-Chloronaphthalene	ND	120	
95-57-8	2-Chlorophenol	ND	120	
91-57-6	2-Methylnaphthalene	ND	120	
95-48-7	2-Methylphenol	ND	120	
88-74-4	2-Nitroaniline	ND	120	
88-75-5	2-Nitrophenol	ND	120	
108-39-4/106-44-	3&4-Methylphenol	ND	230	
91-94-1	3,3'-Dichlorobenzidine	ND	120	
56-49-5	3-Methylcholanthrene	ND	120	
99-09-2	3-Nitroaniline	ND	120	
534-52-1	4,6-Dinitro-2-methylphenol	ND	230	
101-55-3	4-Bromophenyl-phenylether	ND	120	
59-50-7	4-Chloro-3-methylphenol	ND	120	
106-47-8	4-Chloroaniline	ND	120	
7005-72-3	4-Chlorophenyl-phenylether	ND	120	
100-01-6	4-Nitroaniline	ND	120	
100-02-7	4-Nitrophenol	ND	120	
56-57-5	4-nitroquinoline-1-oxide	ND	470	
83-32-9	Acenaphthene	ND	120	
208-96-8	Acenaphthylene	ND	120	
98-86-2	Acetophenone	ND	120	
62-53-3	Aniline	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-111_0-.5	Lab Sample ID:	AB34987
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	84%
Dry Weight Extracted:	21.345 grams	Extract Dilution:	1
Wet Weight Extracted:	25.525 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	120	
140-57-8	Aramite	ND	120	
103-33-3	Azobenzene	ND	120	
92-87-5	Benzidine	ND	120	
56-55-3	Benzo(a)anthracene	**210**	120	
50-32-8	Benzo(a)pyrene	**240**	120	
205-99-2	Benzo(b)fluoranthene	**440**	120	
191-24-2	Benzo(g,h,i)perylene	**220**	120	
207-08-9	Benzo(k)fluoranthene	**170**	120	
65-85-0	Benzoic acid	**730**	230	
100-51-6	Benzyl alcohol	ND	120	
111-44-4	Bis(2-Chloroethyl)ether	ND	120	
117-81-7	Bis(2-ethylhexyl)phthalate	**470**	120	
85-68-7	Butylbenzylphthalate	ND	120	
86-74-8	Carbazole	ND	120	
510-15-6	Chlorobenzilate	ND	120	
218-01-9	Chrysene	**370**	120	
84-74-2	Di-n-butylphthalate	ND	120	
117-84-0	Di-n-octyl phthalate	ND	120	
53-70-3	Dibenz(a,h)anthracene	ND	120	
132-64-9	Dibenzofuran	ND	120	
84-66-2	Diethylphthalate	ND	120	
131-11-3	Dimethyl phthalate	ND	120	
88-85-7	Dinoseb	ND	230	
62-50-0	Ethyl methanesulfonate	ND	120	
206-44-0	Fluoranthene	**510**	120	
86-73-7	Fluorene	ND	120	
118-74-1	Hexachlorobenzene	ND	120	
87-68-3	Hexachlorobutadiene	ND	120	
77-47-4	Hexachlorocyclopentadiene	ND	120	
67-72-1	Hexachloroethane	ND	120	
1888-71-7	Hexachloropropene	ND	120	
193-39-5	Indeno(1,2,3-cd)pyrene	**180**	120	
465-73-6	Isodrin	ND	120	
78-59-1	Isophorone	ND	120	
120-58-1	Isosafrole	ND	120	
143-50-0	Kepone	ND	120	
66-27-3	Methyl methanesulfonate	ND	120	
86-30-6	N-Nitrosodiphenylamine	ND	120	
621-64-7	N-nitroso-di-n-propylamine	ND	120	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-111_0-.5	Lab Sample ID:	AB34987
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	84%
Dry Weight Extracted:	21.345 grams	Extract Dilution:	1
Wet Weight Extracted:	25.525 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	120	
91-20-3	Naphthalene	ND	120	
98-95-3	Nitrobenzene	ND	120	
608-93-5	Pentachlorobenzene	ND	120	
82-68-8	Pentachloronitrobenzene	ND	120	
87-86-5	Pentachlorophenol	ND	120	
62-44-2	Phenacetin	ND	120	
85-01-8	Phenanthrene	**280**	120	
108-95-2	Phenol	ND	120	
129-00-0	Pyrene	**470**	120	
110-86-1	Pyridine	ND	120	
94-59-7	Safrole	ND	120	
111-91-1	bis(-2-Chloroethoxy)methane	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	75	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-111_1-2	Lab Sample ID:	AB34988
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	23.785 grams	Extract Dilution:	1
Wet Weight Extracted:	27.245 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	420	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-111_1-2	Lab Sample ID:	AB34988
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	23.785 grams	Extract Dilution:	1
Wet Weight Extracted:	27.245 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-111_1-2	Lab Sample ID:	AB34988
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	87%
Dry Weight Extracted:	23.785 grams	Extract Dilution:	1
Wet Weight Extracted:	27.245 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	58	22 - 97
Phenol-d6 (SS2)	58	23 - 99
Nitrobenzene-d5 (SS3)	49	20 - 98
2-Fluorobiphenyl (SS4)	55	23 - 104
2,4,6-Tribromophenol (SS5)	60	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-117_0-.5	Lab Sample ID:	AB34989
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	92%
Dry Weight Extracted:	23.046 grams	Extract Dilution:	1
Wet Weight Extracted:	25.135 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
99-65-0	1,3-Dinitrobenzene	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
130-15-4	1,4-Naphthoquinone	ND	110	
90-12-0	1-Methylnaphthalene	ND	110	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	110	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	110	
95-95-4	2,4,5-Trichlorophenol	ND	110	
88-06-2	2,4,6-Trichlorophenol	ND	110	
120-83-2	2,4-Dichlorophenol	ND	110	
51-28-5	2,4-Dinitrophenol	ND	220	
121-14-2	2,4-Dinitrotoluene	ND	110	
105-67-9	2,4-dimethylphenol	ND	110	
87-65-0	2,6-Dichlorophenol	ND	110	
606-20-2	2,6-Dinitrotoluene	ND	110	
91-58-7	2-Chloronaphthalene	ND	110	
95-57-8	2-Chlorophenol	ND	110	
91-57-6	2-Methylnaphthalene	ND	110	
95-48-7	2-Methylphenol	ND	110	
88-74-4	2-Nitroaniline	ND	110	
88-75-5	2-Nitrophenol	ND	110	
108-39-4/106-44-	3&4-Methylphenol	ND	220	
91-94-1	3,3'-Dichlorobenzidine	ND	110	
56-49-5	3-Methylcholanthrene	ND	110	
99-09-2	3-Nitroaniline	ND	110	
534-52-1	4,6-Dinitro-2-methylphenol	ND	220	
101-55-3	4-Bromophenyl-phenylether	ND	110	
59-50-7	4-Chloro-3-methylphenol	ND	110	
106-47-8	4-Chloroaniline	ND	110	
7005-72-3	4-Chlorophenyl-phenylether	ND	110	
100-01-6	4-Nitroaniline	ND	110	
100-02-7	4-Nitrophenol	ND	110	
56-57-5	4-nitroquinoline-1-oxide	ND	430	
83-32-9	Acenaphthene	ND	110	
208-96-8	Acenaphthylene	ND	110	
98-86-2	Acetophenone	ND	110	
62-53-3	Aniline	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-117_0-.5	Lab Sample ID:	AB34989
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	92%
Dry Weight Extracted:	23.046 grams	Extract Dilution:	1
Wet Weight Extracted:	25.135 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	110	
140-57-8	Aramite	ND	110	
103-33-3	Azobenzene	ND	110	
92-87-5	Benzidine	ND	110	
56-55-3	Benzo(a)anthracene	ND	110	
50-32-8	Benzo(a)pyrene	ND	110	
205-99-2	Benzo(b)fluoranthene	ND	110	
191-24-2	Benzo(g,h,i)perylene	ND	110	
207-08-9	Benzo(k)fluoranthene	ND	110	
65-85-0	Benzoic acid	ND	220	
100-51-6	Benzyl alcohol	ND	110	
111-44-4	Bis(2-Chloroethyl)ether	ND	110	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	110	
85-68-7	Butylbenzylphthalate	ND	110	
86-74-8	Carbazole	ND	110	
510-15-6	Chlorobenzilate	ND	110	
218-01-9	Chrysene	ND	110	
84-74-2	Di-n-butylphthalate	ND	110	
117-84-0	Di-n-octyl phthalate	ND	110	
53-70-3	Dibenz(a,h)anthracene	ND	110	
132-64-9	Dibenzofuran	ND	110	
84-66-2	Diethylphthalate	ND	110	
131-11-3	Dimethyl phthalate	ND	110	
88-85-7	Dinoseb	ND	220	
62-50-0	Ethyl methanesulfonate	ND	110	
206-44-0	Fluoranthene	ND	110	
86-73-7	Fluorene	ND	110	
118-74-1	Hexachlorobenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
77-47-4	Hexachlorocyclopentadiene	ND	110	
67-72-1	Hexachloroethane	ND	110	
1888-71-7	Hexachloropropene	ND	110	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	
465-73-6	Isodrin	ND	110	
78-59-1	Isophorone	ND	110	
120-58-1	Isosafrole	ND	110	
143-50-0	Kepone	ND	110	
66-27-3	Methyl methanesulfonate	ND	110	
86-30-6	N-Nitrosodiphenylamine	ND	110	
621-64-7	N-nitroso-di-n-propylamine	ND	110	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-117_0-.5	Lab Sample ID:	AB34989
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	92%
Dry Weight Extracted:	23.046 grams	Extract Dilution:	1
Wet Weight Extracted:	25.135 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	110	
91-20-3	Naphthalene	ND	110	
98-95-3	Nitrobenzene	ND	110	
608-93-5	Pentachlorobenzene	ND	110	
82-68-8	Pentachloronitrobenzene	ND	110	
87-86-5	Pentachlorophenol	ND	110	
62-44-2	Phenacetin	ND	110	
85-01-8	Phenanthrene	ND	110	
108-95-2	Phenol	ND	110	
129-00-0	Pyrene	ND	110	
110-86-1	Pyridine	ND	110	
94-59-7	Safrole	ND	110	
111-91-1	bis(-2-Chloroethoxy)methane	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	43	22 - 97
Phenol-d6 (SS2)	43	23 - 99
Nitrobenzene-d5 (SS3)	37	20 - 98
2-Fluorobiphenyl (SS4)	40	23 - 104
2,4,6-Tribromophenol (SS5)	48	12 - 127
p-Terphenyl-d14 (SS6)	44	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-117_1-2	Lab Sample ID:	AB34990
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	89%
Dry Weight Extracted:	23.854 grams	Extract Dilution:	1
Wet Weight Extracted:	26.845 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	100	
541-73-1	1,3-Dichlorobenzene	ND	100	
99-65-0	1,3-Dinitrobenzene	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	100	
130-15-4	1,4-Naphthoquinone	ND	100	
90-12-0	1-Methylnaphthalene	ND	100	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	100	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	100	
95-95-4	2,4,5-Trichlorophenol	ND	100	
88-06-2	2,4,6-Trichlorophenol	ND	100	
120-83-2	2,4-Dichlorophenol	ND	100	
51-28-5	2,4-Dinitrophenol	ND	210	
121-14-2	2,4-Dinitrotoluene	ND	100	
105-67-9	2,4-dimethylphenol	ND	100	
87-65-0	2,6-Dichlorophenol	ND	100	
606-20-2	2,6-Dinitrotoluene	ND	100	
91-58-7	2-Chloronaphthalene	ND	100	
95-57-8	2-Chlorophenol	ND	100	
91-57-6	2-Methylnaphthalene	ND	100	
95-48-7	2-Methylphenol	ND	100	
88-74-4	2-Nitroaniline	ND	100	
88-75-5	2-Nitrophenol	ND	100	
108-39-4/106-44-	3&4-Methylphenol	ND	210	
91-94-1	3,3'-Dichlorobenzidine	ND	100	
56-49-5	3-Methylcholanthrene	ND	100	
99-09-2	3-Nitroaniline	ND	100	
534-52-1	4,6-Dinitro-2-methylphenol	ND	210	
101-55-3	4-Bromophenyl-phenylether	ND	100	
59-50-7	4-Chloro-3-methylphenol	ND	100	
106-47-8	4-Chloroaniline	ND	100	
7005-72-3	4-Chlorophenyl-phenylether	ND	100	
100-01-6	4-Nitroaniline	ND	100	
100-02-7	4-Nitrophenol	ND	100	
56-57-5	4-nitroquinoline-1-oxide	ND	420	
83-32-9	Acenaphthene	ND	100	
208-96-8	Acenaphthylene	ND	100	
98-86-2	Acetophenone	ND	100	
62-53-3	Aniline	ND	100	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-117_1-2	Lab Sample ID:	AB34990
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	89%
Dry Weight Extracted:	23.854 grams	Extract Dilution:	1
Wet Weight Extracted:	26.845 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	100	
140-57-8	Aramite	ND	100	
103-33-3	Azobenzene	ND	100	
92-87-5	Benzidine	ND	100	
56-55-3	Benzo(a)anthracene	ND	100	
50-32-8	Benzo(a)pyrene	ND	100	
205-99-2	Benzo(b)fluoranthene	ND	100	
191-24-2	Benzo(g,h,i)perylene	ND	100	
207-08-9	Benzo(k)fluoranthene	ND	100	
65-85-0	Benzoic acid	ND	210	
100-51-6	Benzyl alcohol	ND	100	
111-44-4	Bis(2-Chloroethyl)ether	ND	100	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	100	
85-68-7	Butylbenzylphthalate	ND	100	
86-74-8	Carbazole	ND	100	
510-15-6	Chlorobenzilate	ND	100	
218-01-9	Chrysene	ND	100	
84-74-2	Di-n-butylphthalate	ND	100	
117-84-0	Di-n-octyl phthalate	ND	100	
53-70-3	Dibenz(a,h)anthracene	ND	100	
132-64-9	Dibenzofuran	ND	100	
84-66-2	Diethylphthalate	ND	100	
131-11-3	Dimethyl phthalate	ND	100	
88-85-7	Dinoseb	ND	210	
62-50-0	Ethyl methanesulfonate	ND	100	
206-44-0	Fluoranthene	ND	100	
86-73-7	Fluorene	ND	100	
118-74-1	Hexachlorobenzene	ND	100	
87-68-3	Hexachlorobutadiene	ND	100	
77-47-4	Hexachlorocyclopentadiene	ND	100	
67-72-1	Hexachloroethane	ND	100	
1888-71-7	Hexachloropropene	ND	100	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	
465-73-6	Isodrin	ND	100	
78-59-1	Isophorone	ND	100	
120-58-1	Isosafrole	ND	100	
143-50-0	Kepone	ND	100	
66-27-3	Methyl methanesulfonate	ND	100	
86-30-6	N-Nitrosodiphenylamine	ND	100	
621-64-7	N-nitroso-di-n-propylamine	ND	100	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-117_1-2	Lab Sample ID:	AB34990
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	89%
Dry Weight Extracted:	23.854 grams	Extract Dilution:	1
Wet Weight Extracted:	26.845 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	100	
91-20-3	Naphthalene	ND	100	
98-95-3	Nitrobenzene	ND	100	
608-93-5	Pentachlorobenzene	ND	100	
82-68-8	Pentachloronitrobenzene	ND	100	
87-86-5	Pentachlorophenol	ND	100	
62-44-2	Phenacetin	ND	100	
85-01-8	Phenanthrene	ND	100	
108-95-2	Phenol	ND	100	
129-00-0	Pyrene	ND	100	
110-86-1	Pyridine	ND	100	
94-59-7	Safrole	ND	100	
111-91-1	bis(-2-Chloroethoxy)methane	ND	100	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	40	22 - 97
Phenol-d6 (SS2)	38	23 - 99
Nitrobenzene-d5 (SS3)	34	20 - 98
2-Fluorobiphenyl (SS4)	37	23 - 104
2,4,6-Tribromophenol (SS5)	43	12 - 127
p-Terphenyl-d14 (SS6)	43	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-138_0-.5	Lab Sample ID:	AB34991
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	72%
Dry Weight Extracted:	18.997 grams	Extract Dilution:	1
Wet Weight Extracted:	26.319 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	130	
99-65-0	1,3-Dinitrobenzene	ND	130	
106-46-7	1,4-Dichlorobenzene	ND	130	
130-15-4	1,4-Naphthoquinone	ND	130	
90-12-0	1-Methylnaphthalene	ND	130	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	130	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	130	
95-95-4	2,4,5-Trichlorophenol	ND	130	
88-06-2	2,4,6-Trichlorophenol	ND	130	
120-83-2	2,4-Dichlorophenol	ND	130	
51-28-5	2,4-Dinitrophenol	ND	260	
121-14-2	2,4-Dinitrotoluene	ND	130	
105-67-9	2,4-dimethylphenol	ND	130	
87-65-0	2,6-Dichlorophenol	ND	130	
606-20-2	2,6-Dinitrotoluene	ND	130	
91-58-7	2-Chloronaphthalene	ND	130	
95-57-8	2-Chlorophenol	ND	130	
91-57-6	2-Methylnaphthalene	ND	130	
95-48-7	2-Methylphenol	ND	130	
88-74-4	2-Nitroaniline	ND	130	
88-75-5	2-Nitrophenol	ND	130	
108-39-4/106-44-	3&4-Methylphenol	ND	260	
91-94-1	3,3'-Dichlorobenzidine	ND	130	
56-49-5	3-Methylcholanthrene	ND	130	
99-09-2	3-Nitroaniline	ND	130	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	130	
59-50-7	4-Chloro-3-methylphenol	ND	130	
106-47-8	4-Chloroaniline	ND	130	
7005-72-3	4-Chlorophenyl-phenylether	ND	130	
100-01-6	4-Nitroaniline	ND	130	
100-02-7	4-Nitrophenol	ND	130	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	ND	130	
208-96-8	Acenaphthylene	ND	130	
98-86-2	Acetophenone	ND	130	
62-53-3	Aniline	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-138_0-.5	Lab Sample ID:	AB34991
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	72%
Dry Weight Extracted:	18.997 grams	Extract Dilution:	1
Wet Weight Extracted:	26.319 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	130	
140-57-8	Aramite	ND	130	
103-33-3	Azobenzene	ND	130	
92-87-5	Benzidine	ND	130	
56-55-3	Benzo(a)anthracene	ND	130	
50-32-8	Benzo(a)pyrene	ND	130	
205-99-2	Benzo(b)fluoranthene	ND	130	
191-24-2	Benzo(g,h,i)perylene	ND	130	
207-08-9	Benzo(k)fluoranthene	ND	130	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	130	
111-44-4	Bis(2-Chloroethyl)ether	ND	130	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	130	
85-68-7	Butylbenzylphthalate	ND	130	
86-74-8	Carbazole	ND	130	
510-15-6	Chlorobenzilate	ND	130	
218-01-9	Chrysene	ND	130	
84-74-2	Di-n-butylphthalate	ND	130	
117-84-0	Di-n-octyl phthalate	ND	130	
53-70-3	Dibenz(a,h)anthracene	ND	130	
132-64-9	Dibenzofuran	ND	130	
84-66-2	Diethylphthalate	ND	130	
131-11-3	Dimethyl phthalate	ND	130	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	130	
206-44-0	Fluoranthene	ND	130	
86-73-7	Fluorene	ND	130	
118-74-1	Hexachlorobenzene	ND	130	
87-68-3	Hexachlorobutadiene	ND	130	
77-47-4	Hexachlorocyclopentadiene	ND	130	
67-72-1	Hexachloroethane	ND	130	
1888-71-7	Hexachloropropene	ND	130	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	
465-73-6	Isodrin	ND	130	
78-59-1	Isophorone	ND	130	
120-58-1	Isosafrole	ND	130	
143-50-0	Kepone	ND	130	
66-27-3	Methyl methanesulfonate	ND	130	
86-30-6	N-Nitrosodiphenylamine	ND	130	
621-64-7	N-nitroso-di-n-propylamine	ND	130	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	MHK_SS-138_0-.5	Lab Sample ID:	AB34991
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/25/12	Percent Solids:	72%
Dry Weight Extracted:	18.997 grams	Extract Dilution:	1
Wet Weight Extracted:	26.319 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	130	
91-20-3	Naphthalene	ND	130	
98-95-3	Nitrobenzene	ND	130	
608-93-5	Pentachlorobenzene	ND	130	
82-68-8	Pentachloronitrobenzene	ND	130	
87-86-5	Pentachlorophenol	ND	130	
62-44-2	Phenacetin	ND	130	
85-01-8	Phenanthrene	ND	130	
108-95-2	Phenol	ND	130	
129-00-0	Pyrene	ND	130	
110-86-1	Pyridine	ND	130	
94-59-7	Safrole	ND	130	
111-91-1	bis(-2-Chloroethoxy)methane	ND	130	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	50	22 - 97
Phenol-d6 (SS2)	58	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	60	12 - 127
p-Terphenyl-d14 (SS6)	65	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	SS2132	Lab Sample ID:	AB34994
Date of Collection:	10/23/2012	Matrix	PE-Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	26.195 grams	Extract Dilution:	1
Wet Weight Extracted:	26.195 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	**280**	95	
120-82-1	1,2,4-Trichlorobenzene	ND	95	
95-50-1	1,2-Dichlorobenzene	ND	95	
541-73-1	1,3-Dichlorobenzene	ND	95	
99-65-0	1,3-Dinitrobenzene	ND	95	
106-46-7	1,4-Dichlorobenzene	ND	95	
130-15-4	1,4-Naphthoquinone	ND	95	
90-12-0	1-Methylnaphthalene	**510**	95	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	95	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	95	
95-95-4	2,4,5-Trichlorophenol	ND	95	
88-06-2	2,4,6-Trichlorophenol	**560**	95	
120-83-2	2,4-Dichlorophenol	ND	95	
51-28-5	2,4-Dinitrophenol	ND	190	
121-14-2	2,4-Dinitrotoluene	**280**	95	
105-67-9	2,4-dimethylphenol	ND	95	
87-65-0	2,6-Dichlorophenol	ND	95	
606-20-2	2,6-Dinitrotoluene	**460**	95	
91-58-7	2-Chloronaphthalene	ND	95	
95-57-8	2-Chlorophenol	**180**	95	
91-57-6	2-Methylnaphthalene	ND	95	
95-48-7	2-Methylphenol	**160**	95	
88-74-4	2-Nitroaniline	ND	95	
88-75-5	2-Nitrophenol	**1300**	95	
108-39-4/106-44-	3&4-Methylphenol	**240**	190	
91-94-1	3,3'-Dichlorobenzidine	ND	95	
56-49-5	3-Methylcholanthrene	ND	95	
99-09-2	3-Nitroaniline	ND	95	
534-52-1	4,6-Dinitro-2-methylphenol	**470**	190	
101-55-3	4-Bromophenyl-phenylether	ND	95	
59-50-7	4-Chloro-3-methylphenol	**650**	95	
106-47-8	4-Chloroaniline	ND	95	
7005-72-3	4-Chlorophenyl-phenylether	ND	95	
100-01-6	4-Nitroaniline	ND	95	
100-02-7	4-Nitrophenol	**1300**	95	
56-57-5	4-nitroquinoline-1-oxide	ND	380	
83-32-9	Acenaphthene	ND	95	
208-96-8	Acenaphthylene	ND	95	
98-86-2	Acetophenone	ND	95	
62-53-3	Aniline	ND	95	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	SS2132	Lab Sample ID:	AB34994
Date of Collection:	10/23/2012	Matrix	PE-Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	26.195 grams	Extract Dilution:	1
Wet Weight Extracted:	26.195 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**350**	95	
140-57-8	Aramite	ND	95	
103-33-3	Azobenzene	ND	95	
92-87-5	Benzidine	ND	95	
56-55-3	Benzo(a)anthracene	ND	95	
50-32-8	Benzo(a)pyrene	**570**	95	
205-99-2	Benzo(b)fluoranthene	ND	95	
191-24-2	Benzo(g,h,i)perylene	ND	95	
207-08-9	Benzo(k)fluoranthene	ND	95	
65-85-0	Benzoic acid	ND	190	
100-51-6	Benzyl alcohol	ND	95	
111-44-4	Bis(2-Chloroethyl)ether	ND	95	
117-81-7	Bis(2-ethylhexyl)phthalate	**670**	95	
85-68-7	Butylbenzylphthalate	ND	95	
86-74-8	Carbazole	ND	95	
510-15-6	Chlorobenzilate	ND	95	
218-01-9	Chrysene	**720**	95	
84-74-2	Di-n-butylphthalate	**470**	95	
117-84-0	Di-n-octyl phthalate	ND	95	
53-70-3	Dibenz(a,h)anthracene	**430**	95	
132-64-9	Dibenzofuran	**340**	95	
84-66-2	Diethylphthalate	ND	95	
131-11-3	Dimethyl phthalate	**860**	95	
88-85-7	Dinoseb	ND	190	
62-50-0	Ethyl methanesulfonate	ND	95	
206-44-0	Fluoranthene	**710**	95	
86-73-7	Fluorene	ND	95	
118-74-1	Hexachlorobenzene	**290**	95	
87-68-3	Hexachlorobutadiene	**560**	95	
77-47-4	Hexachlorocyclopentadiene	ND	95	
67-72-1	Hexachloroethane	ND	95	
1888-71-7	Hexachloropropene	ND	95	
193-39-5	Indeno(1,2,3-cd)pyrene	**710**	95	
465-73-6	Isodrin	ND	95	
78-59-1	Isophorone	ND	95	
120-58-1	Isosafrole	ND	95	
143-50-0	Kepone	ND	95	
66-27-3	Methyl methanesulfonate	ND	95	
86-30-6	N-Nitrosodiphenylamine	ND	95	
621-64-7	N-nitroso-di-n-propylamine	ND	95	

Mohawk Tannery - Nashua, NH

BNAs in Soils Medium Level

Client Sample ID:	SS2132	Lab Sample ID:	AB34994
Date of Collection:	10/23/2012	Matrix	PE-Soil
Date of Extraction:	10/24/12	Amount Prepared	N/A
Date of Analysis:	10/24/12	Percent Solids:	100%
Dry Weight Extracted:	26.195 grams	Extract Dilution:	1
Wet Weight Extracted:	26.195 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	95	
91-20-3	Naphthalene	**240**	95	
98-95-3	Nitrobenzene	ND	95	
608-93-5	Pentachlorobenzene	ND	95	
82-68-8	Pentachloronitrobenzene	ND	95	
87-86-5	Pentachlorophenol	**440**	95	
62-44-2	Phenacetin	ND	95	
85-01-8	Phenanthrene	**900**	95	
108-95-2	Phenol	ND	95	
129-00-0	Pyrene	**760**	95	
110-86-1	Pyridine	ND	95	
94-59-7	Safrole	ND	95	
111-91-1	bis(-2-Chloroethoxy)methane	ND	95	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	63	23 - 99
Nitrobenzene-d5 (SS3)	50	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	55	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

MATRIX SPIKE (MS)

Mohawk Tannery - Nashua, NH

Sample ID: AB34978

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	1,663	ND	1300	78	47 - 97
1,2,4-Trichlorobenzene	1,663	ND	1200	72	46 - 95
1,2-Dichlorobenzene	1,663	ND	1000	60	42 - 90
1,3-Dichlorobenzene	1,663	ND	1000	60	41 - 86
1,3-Dinitrobenzene	1,663	ND	1300	78	36 - 117
1,4-Dichlorobenzene	1,663	ND	1000	60	41 - 86
1,4-Naphthoquinone	1,663	ND	1100	66	10 - 123
1-Methylnaphthalene	1,663	ND	1200	72	49 - 99
2,2'-oxybis(1-chloropropane)	1,663	ND	1000	60	35 - 117
2,3,4,6-Tetrachlorophenol	1,663	ND	1300	78	7.7 - 168
2,4,5-Trichlorophenol	1,663	ND	1400	84	54 - 103
2,4,6-Trichlorophenol	1,663	ND	1300	78	33 - 119
2,4-Dichlorophenol	1,663	ND	1300	78	42 - 107
2,4-Dinitrophenol	1,663	ND	1100	66	10 - 114
2,4-Dinitrotoluene	1,663	ND	1200	72	29 - 129
2,4-dimethylphenol	1,663	ND	1100	66	35 - 105
2,6-Dichlorophenol	1,663	ND	1300	78	28 - 114
2,6-Dinitrotoluene	1,663	ND	1200	72	57 - 105
2-Chloronaphthalene	1,663	ND	1200	72	45 - 108
2-Chlorophenol	1,663	ND	1200	72	41 - 102
2-Methylnaphthalene	1,663	ND	1200	72	43 - 101
2-Methylphenol	1,663	ND	1200	72	45 - 102
2-Nitroaniline	1,663	ND	1300	78	40 - 142
2-Nitrophenol	1,663	ND	1300	78	48 - 99
3&4-Methylphenol	3,327	ND	2300	69	10 - 154
3,3'-Dichlorobenzidine	1,663	ND	990	60	10 - 137
3-Methylcholanthrene	1,663	ND	1400	84	25 - 123
3-Nitroaniline	1,663	ND	1200	72	30 - 114
4,6-Dinitro-2-methylphenol	1,663	ND	1200	72	10 - 115
4-Bromophenyl-phenylether	1,663	ND	1300	78	48 - 116
4-Chloro-3-methylphenol	1,663	ND	1300	78	43 - 112
4-Chloroaniline	1,663	ND	780	47	17 - 94
4-Chlorophenyl-phenylether	1,663	ND	1300	78	52 - 103
4-Nitroaniline	1,663	ND	1200	72	17 - 117
4-Nitrophenol	1,663	ND	1400	84	17 - 141
4-nitroquinoline-1-oxide	1,663	ND	990	60	4.4 - 101
Acenaphthene	1,663	ND	1300	78	53 - 101
Acenaphthylene	1,663	ND	1300	78	56 - 99
Acetophenone	1,663	ND	1100	66	46 - 101
Aniline	1,663	ND	600	36	10 - 90
Anthracene	1,663	ND	1300	78	58 - 108
Aramite	1,663	ND	1200	72	39 - 118
Azobenzene	1,663	ND	1300	78	53 - 117
Benzidine	1,663	ND	ND	ND	10 - 41
Benzo(a)anthracene	1,663	ND	1400	84	50 - 112
Benzo(a)pyrene	1,663	ND	1400	84	34 - 122
Benzo(b)fluoranthene	1,663	ND	1500	90	42 - 120
Benzo(g,h,i)perylene	1,663	ND	1500	90	50 - 108

Benzo(k)fluoranthene	1,663	ND	1400	84	33 - 116
Benzoic acid	1,663	ND	2600	156	10 - 168
Benzyl alcohol	1,663	ND	1100	66	18 - 131
Bis(2-Chloroethyl)ether	1,663	ND	1100	66	45 - 98
Bis(2-ethylhexyl)phthalate	1,663	ND	1400	84	22 - 151
Butylbenzylphthalate	1,663	ND	1400	84	56 - 120
Carbazole	1,663	ND	1300	78	52 - 114
Chlorobenzilate	1,663	ND	1400	84	50 - 129
Chrysene	1,663	ND	1400	84	43 - 111
Di-n-butylphthalate	1,663	ND	1300	78	57 - 125
Di-n-octyl phthalate	1,663	ND	1300	78	39 - 128
Dibenz(a,h)anthracene	1,663	ND	1400	84	31 - 129
Dibenzofuran	1,663	ND	1300	78	53 - 100
Diethylphthalate	1,663	ND	1300	78	54 - 106
Dimethyl phthalate	1,663	ND	1300	78	54 - 104
Dinoseb	1,663	ND	1200	72	6.4 - 114
Ethyl methanesulfonate	1,663	ND	1100	66	46 - 100
Fluoranthene	1,663	ND	1400	84	43 - 126
Fluorene	1,663	ND	1300	78	57 - 103
Hexachlorobenzene	1,663	ND	1300	78	46 - 113
Hexachlorobutadiene	1,663	ND	1300	78	44 - 93
Hexachlorocyclopentadiene	1,663	ND	1300	78	10 - 115
Hexachloroethane	1,663	ND	1200	72	36 - 88
Hexachloropropene	1,663	ND	1300	78	10 - 112
Indeno(1,2,3-cd)pyrene	1,663	ND	1500	90	29 - 131
Isodrin	1,663	ND	1200	72	6.7 - 141
Isophorone	1,663	ND	1200	72	52 - 108
Isosafrole	1,663	ND	1200	72	49 - 97
Kepone	1,663	ND	ND	ND	10 - 126
Methyl methanesulfonate	1,663	ND	1200	72	15 - 112
N-Nitrosodiphenylamine	1,663	ND	1300	78	50 - 107
N-nitroso-di-n-propylamine	1,663	ND	1100	66	45 - 108
N-nitrosodimethylamine	1,663	ND	1100	66	34 - 90
Naphthalene	1,663	ND	1200	72	43 - 100
Nitrobenzene	1,663	ND	1200	72	46 - 103
Pentachlorobenzene	1,663	ND	1300	78	50 - 101
Pentachloronitrobenzene	1,663	ND	1300	78	51 - 119
Pentachlorophenol	1,663	ND	1300	78	6.2 - 128
Phenacetin	1,663	ND	1300	78	54 - 124
Phenanthrene	1,663	ND	1300	78	47 - 119
Phenol	1,663	ND	1200	72	48 - 97
Pyrene	1,663	ND	1400	84	49 - 117
Pyridine	1,663	ND	870	52	14 - 67
Safrole	1,663	ND	1200	72	49 - 103
bis(-2-Chloroethoxy)methane	1,663	ND	1300	78	47 - 102

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB34978

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	52
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	1321	1070	81	41 - 113
1,2,4-Trichlorobenzene	1321	982	74	39 - 111
1,2-Dichlorobenzene	1321	862	65	36 - 106
1,3-Dichlorobenzene	1321	873	66	35 - 103
1,3-Dinitrobenzene	1321	1130	86	26 - 138
1,4-Dichlorobenzene	1321	896	68	35 - 103
1,4-Naphthoquinone	1321	939	71	37 - 134
1-Methylnaphthalene	1321	962	73	41 - 117
2,2'-oxybis(1-chloropropane)	1321	834	63	30 - 134
2,3,4,6-Tetrachlorophenol	1321	893	68	16 - 153
2,4,5-Trichlorophenol	1321	1050	80	38 - 122
2,4,6-Trichlorophenol	1321	1000	76	39 - 121
2,4-Dichlorophenol	1321	964	73	40 - 118
2,4-Dinitrophenol	1321	ND	0	10 - 71
2,4-Dinitrotoluene	1321	1010	77	47 - 127
2,4-dimethylphenol	1321	815	62	30 - 120
2,6-Dichlorophenol	1321	1000	76	40 - 116
2,6-Dinitrotoluene	1321	1030	78	46 - 128
2-Chloronaphthalene	1321	1030	78	42 - 125
2-Chlorophenol	1321	973	74	41 - 115
2-Methylnaphthalene	1321	971	74	35 - 120
2-Methylphenol	1321	942	71	40 - 119
2-Nitroaniline	1321	967	73	29 - 163
2-Nitrophenol	1321	933	71	35 - 115
3&4-Methylphenol	2642	1910	72	3.5 - 149
3,3'-Dichlorobenzidine	1321	895	68	29 - 114
3-Methylcholanthrene	1321	1140	86	40 - 126
3-Nitroaniline	1321	892	68	44 - 120
4,6-Dinitro-2-methylphenol	1321	284	22	10 - 97
4-Bromophenyl-phenylether	1321	1100	83	40 - 133
4-Chloro-3-methylphenol	1321	937	71	36 - 133
4-Chloroaniline	1321	548	42	28 - 99
4-Chlorophenyl-phenylether	1321	1090	83	45 - 119
4-Nitroaniline	1321	1010	77	37 - 131
4-Nitrophenol	1321	949	72	15 - 141
4-nitroquinoline-1-oxide	1321	724	55	19 - 118
Acenaphthene	1321	971	74	44 - 119
Acenaphthylene	1321	995	75	44 - 121
Acetophenone	1321	913	69	41 - 115
Aniline	1321	477	36	20 - 99
Anthracene	1321	1060	80	40 - 137
Aramite	1321	910	69	37 - 118
Azobenzene	1321	1160	88	41 - 141
Benzidine	1321	ND	0	2 - 76
Benzo(a)anthracene	1321	1160	88	46 - 128
Benzo(a)pyrene	1321	1120	85	49 - 124
Benzo(b)fluoranthene	1321	1130	86	41 - 135
Benzo(g,h,i)perylene	1321	1220	92	47 - 123
Benzo(k)fluoranthene	1321	1150	87	50 - 114
Benzoic acid	1321	1650	125	10 - 122
Benzyl alcohol	1321	856	65	28 - 129
Bis(2-Chloroethyl)ether	1321	1000	76	40 - 112

Bis(2-ethylhexyl)phthalate	1321	1000	76	38 - 143
Butylbenzylphthalate	1321	1030	78	40 - 143
Carbazole	1321	1080	82	42 - 133
Chlorobenzilate	1321	1050	80	45 - 139
Chrysene	1321	1160	88	47 - 118
Di-n-butylphthalate	1321	1060	80	33 - 183
Di-n-octyl phthalate	1321	969	73	44 - 125
Dibenz(a,h)anthracene	1321	1110	84	47 - 128
Dibenzofuran	1321	1020	77	44 - 118
Diethylphthalate	1321	1020	77	44 - 132
Dimethyl phthalate	1321	1010	77	46 - 121
Dinoseb	1321	680	52	10 - 118
Ethyl methanesulfonate	1321	888	67	41 - 117
Fluoranthene	1321	1130	86	42 - 135
Fluorene	1321	1030	78	47 - 122
Hexachlorobenzene	1321	1090	83	38 - 133
Hexachlorobutadiene	1321	1050	80	40 - 108
Hexachlorocyclopentadiene	1321	1060	80	18 - 130
Hexachloroethane	1321	950	72	34 - 106
Hexachloropropene	1321	1070	81	31 - 115
Indeno(1,2,3-cd)pyrene	1321	1240	94	46 - 127
Isodrin	1321	1060	80	43 - 137
Isophorone	1321	968	73	45 - 125
Isosafrole	1321	974	74	41 - 115
Kepone	1321	ND	0	12 - 101
Methyl methanesulfonate	1321	956	72	6.3 - 136
N-Nitrosodiphenylamine	1321	1060	80	30 - 148
N-nitroso-di-n-propylamine	1321	838	63	41 - 122
N-nitrosodimethylamine	1321	904	68	28 - 107
Naphthalene	1321	1010	77	38 - 118
Nitrobenzene	1321	975	74	40 - 119
Pentachlorobenzene	1321	1060	80	44 - 116
Pentachloronitrobenzene	1321	1050	80	39 - 139
Pentachlorophenol	1321	588	45	10 - 117
Phenacetin	1321	1040	79	39 - 146
Phenanthrene	1321	1060	80	39 - 134
Phenol	1321	979	74	39 - 121
Pyrene	1321	1110	84	45 - 130
Pyridine	1321	722	55	22 - 77
Safrole	1321	985	75	45 - 119
bis(-2-Chloroethoxy)methane	1321	1010	77	40 - 119

Comments:

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1505
[illegible]	10/23/12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-138_1-2	10/23/12	12:24	SO	X	X				2		
	MHK_SS-140_0-.5	10/23/12	12:39	SO	X	X	X			3		
	MHK_SS-140_1-2	10/23/12	12:52	SO	X	X				2		
	MHK_SS-145_0-.5	10/23/12	9:04	SO	X	X	X			3		
	MHK_SS-151_0-.5	10/23/12	10:09	SO	X	X	X			3		
	MHK_SS-152_0-.5	10/23/12	10:20	SO	X	X	X			3		
	MHK_SS-153_0-.5	10/23/12	10:37	SO	X	X	X			3		
	MHK_SS-154_0-.5	10/23/12	11:16	SO	X	X	X			3		
	MHK_SS-155_0-.5	10/23/12	11:30	SO	X	X	X			3		
	OW-201	10/23/12	12:39	SO	X	X	X			3		
	EQUIP BLANK	10/23/12	13:30	AQ	X	X				6		

PN: 1210003 7

PN: 1210003 8

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
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To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 15:05
[illegible]	10-23-12 15:40	[illegible]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	MHK_SS-139_0-.5	10/22/12	12:10	SO	X	X	X			3		
	MHK_SS-139_1-2	10/22/12	12:20	SO	X	X				2		
	MHK_SS-141_0-.5	10/22/12	12:32	SO	X	X	X			3		
	MHK_SS-143_0-.5	10/22/12	10:40	SO	X	X	X			3		
	MHK_SS-147_0-.5	10/22/12	9:05	SO	X	X	X			3		
	MHK_SS-149_0-.5	10/22/12	8:50	SO	X	X	X			3		
	MHK_SS-111_0-.5	10/23/12	9:43	SO	X	X	X			3		
	MHK_SS-111_1-2	10/23/12	9:50	SO	X	X				2		
	MHK_SS-117_0-.5	10/23/12	10:49	SO	X	X	X			3		
	MHK_SS-117_1-2	10/23/12	11:04	SO	X	X				2		
	MHK_SS-138_0-.5	10/23/12	12:10	SO	X	X	X			3		

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/23/12 15:05	[signature]	10/23/12 1500
[signature]	10/23/12 15:40	[signature]	10/23/12 15:40

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-201
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAHS	SVOCs $BNAMS	Asbestos PLM			# of Containers	MeOH Vial #	Remarks:
	TRIP BLANK	01/00/00		AQ	X					2		
	MLV0081	10/23/12	12:20	SO	X					2		
	SS2132	10/23/12	12:20	SO		X				1		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

November 07, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100043
Project: Mohawk Tannery - Nashua, NH
Analysis: Bulk Asbestos Analysis by PLM
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-INGASBSD2.

Analytical Method: Polarized Light Microscope (PLM) with Dispersion Staining.
All quantities are estimated volume percent.

Date Samples Received by the Laboratory: 10/25/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at .

Sincerely,

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-101_0-.5	Lab Sample ID:	AB35043
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Gray/brown sandy soil witth many small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-102_0-.5	Lab Sample ID:	AB35044
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fine, dark brown soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Laboratory Blank for Bulk Asbestos

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND		
	Amosite	ND		
	Anthophylite	ND		
	Chrysotile	ND		
	Crocidolite	ND		
	Tremolite	ND		

Comments: RTI standard #16, pink insulaion used to verify alignment of PLM.

Client Sample ID:	MHK_SS-103_0-.5	Lab Sample ID:	AB35045
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-104_0-.5	Lab Sample ID:	AB35046
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine, soil witth many small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-105-0-.5	Lab Sample ID:	AB35047
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-106_0-.5	Lab Sample ID:	AB35048
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown fine soil witth many small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-108_0-.5	Lab Sample ID:	AB35049
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black/gray, wet, coarse soil/sand mix.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-109_0-.5	Lab Sample ID:	AB35050
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil.

No visible fiber bundles.

Client Sample ID:	MHK_SS-112_0-.5	Lab Sample ID:	AB35051
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-113_0-.5	Lab Sample ID:	AB35052
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-114_0-.5	Lab Sample ID:	AB35053
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-115_0-.5	Lab Sample ID:	AB35054
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown, fine soil witth many small roots..

No visible fiber bundles.

Client Sample ID:	OW-202	Lab Sample ID:	AB35055
Date of Collection:	10/23/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-118_0-.5	Lab Sample ID:	AB35056
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown soil witth many small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-119_0-.5	Lab Sample ID:	AB35057
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, moist soil witth many small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-120_0-.5	Lab Sample ID:	AB35058
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots.

No visible fiber bundles.

Client Sample ID:	MHK_SS-121_0-.5	Lab Sample ID:	AB35059
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/1/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-123_0-.5	Lab Sample ID:	AB35060
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-124_0-.5	Lab Sample ID:	AB35061
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-125_0-.5	Lab Sample ID:	AB35062
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown, sandy soil..

No visible fiber bundles.

Client Sample ID:	MHK_SS-126_0-.5	Lab Sample ID:	AB35063
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-127_0-.5	Lab Sample ID:	AB35064
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown sandy soil..

No visible fiber bundles.

Client Sample ID:	MHK_SS-128_0-.5	Lab Sample ID:	AB35065
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown sandy soil..

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-129_0-.5	Lab Sample ID:	AB35066
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown fine soil..

No visible fiber bundles.

Client Sample ID:	MHK_SS-130_0-.5	Lab Sample ID:	AB35067
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/2/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown fine soil..

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	OW-203	Lab Sample ID:	AB35068
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-131_0-.5	Lab Sample ID:	AB35069
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown sandy soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-132_0-.5	Lab Sample ID:	AB35070
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-133_0-.5	Lab Sample ID:	AB35071
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-134_0-.5	Lab Sample ID:	AB35072
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-135_0-.5	Lab Sample ID:	AB35073
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown, sandy soil with small roots..

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-136_0-.5	Lab Sample ID:	AB35074
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown sandy soil.

No visible fiber bundles.

Client Sample ID:	MHK_SS-142_0-.5	Lab Sample ID:	AB35075
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Brown sandy soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-144_0-.5	Lab Sample ID:	AB35076
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Dark brown, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-146_0-.5	Lab Sample ID:	AB35077
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Bulk Asbestos Analysis by PLM

Client Sample ID:	MHK_SS-148_0-.5	Lab Sample ID:	AB35078
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

Client Sample ID:	MHK_SS-150_0-.5	Lab Sample ID:	AB35079
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black/gray, fine soil witth many small roots and mulch.

No visible fiber bundles.

Mohawk Tannery - Nashua, NH

Laboratory Blank for Bulk Asbestos

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND		
	Amosite	ND		
	Anthophylite	ND		
	Chrysotile	ND		
	Crocidolite	ND		
	Tremolite	ND		

Comments: RTI standard #16, pink insulaion used to verify alignment of PLM.

Client Sample ID:	OW-204	Lab Sample ID:	AB35080
Date of Collection:	10/24/2012	Matrix	Soil
Date of Extraction:	11/1/12		
Date of Analysis:	11/7/12		

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophylite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black, fine soil witth many small roots and mulch.

No visible fiber bundles.

PN : 12100043

(2)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/25/12 13:30	Leo Lapin	10/25/12 1330
Leo Lapin	10/25/12 1500	[illegible]	10/25/12 15:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-202
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	Asbestos PLM					# of Containers	MeOH Vial #	Remarks:
	MHK_SS-101_0-.5	10/23/12	14:05	SO	X					1		
	MHK_SS-102_0-.5	10/23/12	14:12	SO	X					1		
	MHK_SS-103_0-.5	10/23/12	14:33	SO	X					1		
	MHK_SS-104_0-.5	10/23/12	14:19	SO	X					1		
	MHK_SS-105_0-.5	10/23/12	14:37	SO	X					1		
	MHK_SS-106_0-.5	10/23/12	14:49	SO	X					1		
	MHK_SS-108_0-.5	10/23/12	14:57	SO	X					1		
	MHK_SS-109_0-.5	10/23/12	15:05	SO	X					1		
	MHK_SS-112_0-.5	10/23/12	15:15	SO	X					1		
	MHK_SS-113_0-.5	10/23/12	15:55	SO	X					1		

(3)

Shipping Group: 1

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Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/25/12 13:30	[signature]	10/25/12 1330
[signature]	10/25/12 1500	[signature]	10/25/12 1500

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-202
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	Asbestos PLM					# of Containers	MeOH Vial #	Remarks:
	MHK_SS-114_0-.5	10/23/12	15:47	SO	X					1		
	MHK_SS-115_0-.5	10/23/12	15:25	SO	X					1		
	OW-202	10/23/12	15:47	SO	X					1		

4

Shipping Group: 1

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Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 1330
[illegible]	10/25/12 1500	[illegible]	10/25/12 1500

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-203
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	Asbestos PLM					# of Containers	MeOH Vial #	Remarks:
	MHK_SS-118_0-.5	10/24/12	14:58	SO	X					1		
	MHK_SS-119_0-.5	10/24/12	14:15	SO	X					1		
	MHK_SS-120_0-.5	10/24/12	15:07	SO	X					1		
	MHK_SS-121_0-.5	10/24/12	15:35	SO	X					1		
	MHK_SS-123_0-.5	10/24/12	15:26	SO	X					1		
	MHK_SS-124_0-.5	10/24/12	14:32	SO	X					1		
	MHK_SS-125_0-.5	10/24/12	14:05	SO	X					1		
	MHK_SS-126_0-.5	10/24/12	13:46	SO	X					1		
	MHK_SS-127_0-.5	10/24/12	13:12	SO	X					1		
	MHK_SS-128_0-.5	10/24/12	13:27	SO	X					1		

(5)

Shipping Group: 1

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Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 1330
[illegible]	10/25/12 1500	[illegible]	10/25/12 15:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-203
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	Asbestos PLM					# of Containers	MeOH Vial #	Remarks:
	MHK_SS-129_0-.5	10/24/12	13:02	SO	X					1		
	MHK_SS-130_0-.5	10/24/12	12:43	SO	X					1		
	OW-203	10/24/12	13:02	SO	X					1		

(6)

Shipping Group: 1

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Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 1330
[illegible]	10/25/12 1500	[illegible]	10/25/12 15:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-204
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	Asbestos PLM					# of Containers	MeOH Vial #	Remarks:
	MHK_SS-131_0-.5	10/24/12	11:22	SO	X					1		
	MHK_SS-132_0-.5	10/24/12	11:11	SO	X					1		
	MHK_SS-133_0-.5	10/24/12	10:57	SO	X					1		
	MHK_SS-134_0-.5	10/24/12	10:40	SO	X					1		
	MHK_SS-135_0-.5	10/24/12	10:30	SO	X					1		
	MHK_SS-136_0-.5	10/24/12	10:21	SO	X					1		
	MHK_SS-142_0-.5	10/24/12	10:06	SO	X					1		
	MHK_SS-144_0-.5	10/24/12	9:46	SO	X					1		
	MHK_SS-146_0-.5	10/24/12	9:32	SO	X					1		
	MHK_SS-148_0-.5	10/24/12	9:15	SO	X					1		

7

Shipping Group: 1

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Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/25/12 13:39	[illegible]	10/25/12 1330
[illegible]	10/25/12 1500	[illegible]	10/25/12 15:00

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-204
SGD Complete? Yes
Site Specific QA/QC? Yes - Lab to choose

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	Asbestos PLM					# of Containers	MeOH Vial #	Remarks:
	MHK_SS-150_0-.5	10/24/12	9:02	SO	X					1		
	OW-104	10/24/12	10:57	SO	X					1		

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 31, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100043
Project: Mohawk Tannery - Nashua, NH
Analysis: BNAs in water
Analyst: Inna Germansderfer

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were prepared using separatory funnel liquid-liquid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this method is based on the US EPA SW-846 Methods 3510C, 8270C, Method 625, and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 10/25/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/29/12	Amount Prepared	1000 mL
Date of Analysis:	10/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/29/12	Amount Prepared	1000 mL
Date of Analysis:	10/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/29/12	Amount Prepared	1000 mL
Date of Analysis:	10/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	88	34 - 122
2-Fluorobiphenyl (SS4)	91	46 - 112
2-Fluorophenol (SS1)	57	23 - 74
Nitrobenzene-d5 (SS3)	84	33 - 122
Phenol-d6 (SS2)	38	13 - 53
p-Terphenyl-d14 (SS6)	96	52 - 126

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB35041
Date of Collection:	10/24/2012	Matrix	GW
Date of Extraction:	10/29/12	Amount Prepared	1000 mL
Date of Analysis:	10/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	5.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	10	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB35041
Date of Collection:	10/24/2012	Matrix	GW
Date of Extraction:	10/29/12	Amount Prepared	1000 mL
Date of Analysis:	10/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	5.0	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	5.0	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

Mohawk Tannery - Nashua, NH

BNAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB35041
Date of Collection:	10/24/2012	Matrix	GW
Date of Extraction:	10/29/12	Amount Prepared	1000 mL
Date of Analysis:	10/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	2.5	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	57	12 - 74
Phenol-d6 (SS2)	35	6 - 52
Nitrobenzene-d5 (SS3)	82	32 - 114
2-Fluorobiphenyl (SS4)	89	33 - 119
2,4,6-Tribromophenol (SS5)	92	30 - 144
p-Terphenyl-d14 (SS6)	101	40 - 132

Comments: The reporting level for several compounds has been raised to reflect the calibration range of the method.

Laboratory Duplicate Results

Sample ID: AB34980

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	NC	50
1,2,4-Trichlorobenzene	ND	ND	NC	50
1,2-Dichlorobenzene	ND	ND	NC	50
1,3-Dichlorobenzene	ND	ND	NC	50
1,3-Dinitrobenzene	ND	ND	NC	50
1,4-Dichlorobenzene	ND	ND	NC	50
1,4-Naphthoquinone	ND	ND	NC	50
1-Methylnaphthalene	ND	ND	NC	50
2,2'-oxybis(1-chloropropane)	ND	ND	NC	50
2,3,4,6-Tetrachlorophenol	ND	ND	NC	50
2,4,5-Trichlorophenol	ND	ND	NC	50
2,4,6-Trichlorophenol	ND	ND	NC	50
2,4-Dichlorophenol	ND	ND	NC	50
2,4-Dinitrophenol	ND	ND	NC	50
2,4-Dinitrotoluene	ND	ND	NC	50
2,4-dimethylphenol	ND	ND	NC	50
2,6-Dichlorophenol	ND	ND	NC	50
2,6-Dinitrotoluene	ND	ND	NC	50
2-Chloronaphthalene	ND	ND	NC	50
2-Chlorophenol	ND	ND	NC	50
2-Methylnaphthalene	ND	ND	NC	50
2-Methylphenol	ND	ND	NC	50
2-Nitroaniline	ND	ND	NC	50
2-Nitrophenol	ND	ND	NC	50
3&4-Methylphenol	ND	ND	NC	50
3,3'-Dichlorobenzidine	ND	ND	NC	50
3-Methylcholanthrene	ND	ND	NC	50
3-Nitroaniline	ND	ND	NC	50
4,6-Dinitro-2-methylphenol	ND	ND	NC	50
4-Bromophenyl-phenylether	ND	ND	NC	50
4-Chloro-3-methylphenol	ND	ND	NC	50
4-Chloroaniline	ND	ND	NC	50
4-Chlorophenyl-phenylether	ND	ND	NC	50
4-Nitroaniline	ND	ND	NC	50
4-Nitrophenol	ND	ND	NC	50
4-nitroquinoline-1-oxide	ND	ND	NC	50
Acenaphthene	ND	ND	NC	50
Acenaphthylene	ND	ND	NC	50
Acetophenone	ND	ND	NC	50
Aniline	ND	ND	NC	50
Anthracene	ND	ND	NC	50
Aramite	ND	ND	NC	50
Azobenzene	ND	ND	NC	50
Benzidine	ND	ND	NC	50
Benzo(a)anthracene	ND	ND	NC	50
Benzo(a)pyrene	ND	ND	NC	50
Benzo(b)fluoranthene	ND	ND	NC	50
Benzo(g,h,i)perylene	ND	ND	NC	50

Benzo(k)fluoranthene	ND	ND	NC	50
Benzoic acid	ND	ND	NC	50
Benzyl alcohol	ND	ND	NC	50
Bis(2-Chloroethyl)ether	ND	ND	NC	50
Bis(2-ethylhexyl)phthalate	ND	ND	NC	50
Butylbenzylphthalate	ND	ND	NC	50
Carbazole	ND	ND	NC	50
Chlorobenzilate	ND	ND	NC	50
Chrysene	ND	ND	NC	50
Di-n-butylphthalate	ND	ND	NC	50
Di-n-octyl phthalate	ND	ND	NC	50
Dibenz(a,h)anthracene	ND	ND	NC	50
Dibenzofuran	ND	ND	NC	50
Diethylphthalate	ND	ND	NC	50
Dimethyl phthalate	ND	ND	NC	50
Dinoseb	ND	ND	NC	50
Ethyl methanesulfonate	ND	ND	NC	50
Fluoranthene	ND	ND	NC	50
Fluorene	ND	ND	NC	50
Hexachlorobenzene	ND	ND	NC	50
Hexachlorobutadiene	ND	ND	NC	50
Hexachlorocyclopentadiene	ND	ND	NC	50
Hexachloroethane	ND	ND	NC	50
Hexachloropropene	ND	ND	NC	50
Indeno(1,2,3-cd)pyrene	ND	ND	NC	50
Isodrin	ND	ND	NC	50
Isophorone	ND	ND	NC	50
Isosafrole	ND	ND	NC	50
Kepone	ND	ND	NC	50
Methyl methanesulfonate	ND	ND	NC	50
N-Nitrosodiphenylamine	ND	ND	NC	50
N-nitroso-di-n-propylamine	ND	ND	NC	50
N-nitrosodimethylamine	ND	ND	NC	50
Naphthalene	ND	ND	NC	50
Nitrobenzene	ND	ND	NC	50
Pentachlorobenzene	ND	ND	NC	50
Pentachloronitrobenzene	ND	ND	NC	50
Pentachlorophenol	ND	ND	NC	50
Phenacetin	ND	ND	NC	50
Phenanthrene	ND	ND	NC	50
Phenol	ND	ND	NC	50
Pyrene	ND	ND	NC	50
Pyridine	ND	ND	NC	50
Safrole	ND	ND	NC	50
bis(-2-Chloroethoxy)methane	ND	ND	NC	50

Comments:

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	40	30.1	75	20 - 104
1,2,4-Trichlorobenzene	40	28.8	72	11 - 97
1,2-Dichlorobenzene	40	27.2	68	11 - 93
1,3-Dichlorobenzene	40	25.9	65	8.3 - 86
1,3-Dinitrobenzene	40	40.9	102	58 - 122
1,4-Dichlorobenzene	40	26.0	65	11 - 86
1,4-Naphthoquinone	40	33.4	84	19 - 133
1-Methylnaphthalene	40	31.5	79	30 - 111
2,2'-oxybis(1-chloropropane)	40	32.2	81	37 - 119
2,3,4,6-Tetrachlorophenol	40	36.7	92	52 - 128
2,4,5-Trichlorophenol	40	37.8	95	54 - 121
2,4,6-Trichlorophenol	40	37.6	94	56 - 120
2,4-Dichlorophenol	40	38.5	96	55 - 112
2,4-Dinitrophenol	40	33.5	84	15 - 134
2,4-Dinitrotoluene	40	37.8	95	59 - 130
2,4-dimethylphenol	40	30.5	76	38 - 117
2,6-Dichlorophenol	40	36.0	90	52 - 112
2,6-Dinitrotoluene	40	34.4	86	56 - 129
2-Chloronaphthalene	40	31.4	79	29 - 118
2-Chlorophenol	40	38.3	96	49 - 104
2-Methylnaphthalene	40	30.8	77	27 - 108
2-Methylphenol	40	30.8	77	41 - 109
2-Nitroaniline	40	39.2	98	48 - 150
2-Nitrophenol	40	37.9	95	53 - 117
3&4-Methylphenol	80	61.0	76	18 - 127
3,3'-Dichlorobenzidine	40	39.7	99	52 - 129
3-Methylcholanthrene	40	42.0	105	51 - 119
3-Nitroaniline	40	36.6	92	53 - 128
4,6-Dinitro-2-methylphenol	40	35.4	89	42 - 121
4-Bromophenyl-phenylether	40	34.4	86	51 - 119
4-Chloro-3-methylphenol	40	36.7	92	51 - 128
4-Chloroaniline	40	26.8	67	37 - 115
4-Chlorophenyl-phenylether	40	37.2	93	47 - 116
4-Nitroaniline	40	37.8	95	44 - 139
4-Nitrophenol	40	21.4	54	22 - 84
4-nitroquinoline-1-oxide	40	23.6	59	30 - 117
Acenaphthene	40	34.2	86	47 - 111
Acenaphthylene	40	33.8	85	50 - 112
Acetophenone	40	34.6	87	35 - 134
Aniline	40	25.1	63	33 - 102
Anthracene	40	37.6	94	58 - 124
Aramite	40	36.4	91	37 - 126
Azobenzene	40	37.5	94	54 - 120
Benzidine	40	2.6	7	10 - 85
Benzo(a)anthracene	40	39.4	99	62 - 120
Benzo(a)pyrene	40	40.4	101	56 - 128
Benzo(b)fluoranthene	40	41.8	105	50 - 135

Benzo(g,h,i)perylene	40	43.8	110	53 - 126
Benzo(k)fluoranthene	40	40.0	100	55 - 126
Benzoic acid	40	17.6	44	17 - 77
Benzyl alcohol	40	31.4	79	31 - 121
Bis(2-Chloroethyl)ether	40	37.4	94	52 - 106
Bis(2-ethylhexyl)phthalate	40	65.5	164	63 - 130
Butylbenzylphthalate	40	40.2	101	60 - 133
Carbazole	40	37.2	93	57 - 127
Chlorobenzilate	40	40.5	101	60 - 131
Chrysene	40	40.7	102	60 - 116
Di-n-butylphthalate	40	66.4	166	60 - 133
Di-n-octyl phthalate	40	40.4	101	48 - 133
Dibenz(a,h)anthracene	40	41.9	105	55 - 130
Dibenzofuran	40	34.2	86	51 - 110
Diethylphthalate	40	36.4	91	38 - 146
Dimethyl phthalate	40	36.3	91	58 - 121
Dinoseb	40	35.0	88	19 - 78
Ethyl methanesulfonate	40	34.2	86	48 - 115
Fluoranthene	40	40.8	102	57 - 128
Fluorene	40	35.6	89	53 - 116
Hexachlorobenzene	40	37.1	93	55 - 116
Hexachlorobutadiene	40	25.6	64	10 - 92
Hexachlorocyclopentadiene	40	24.2	61	1.5 - 108
Hexachloroethane	40	25.9	65	11 - 83
Hexachloropropene	40	25.9	65	13 - 96
Indeno(1,2,3-cd)pyrene	40	44.0	110	54 - 129
Isodrin	40	34.9	87	53 - 124
Isophorone	40	36.2	91	53 - 128
Isosafrole	40	34.5	86	41 - 112
Kepone	40	ND	0	10 - 140
Methyl methanesulfonate	40	32.4	81	25 - 104
N-Nitrosodiphenylamine	40	36.2	91	56 - 115
N-nitroso-di-n-propylamine	40	34.6	87	47 - 126
N-nitrosodimethylamine	40	24.1	60	29 - 76
Naphthalene	40	33.2	83	31 - 104
Nitrobenzene	40	35.5	89	53 - 108
Pentachlorobenzene	40	34.2	86	44 - 110
Pentachloronitrobenzene	40	37.4	94	57 - 127
Pentachlorophenol	40	32.0	80	31 - 121
Phenacetin	40	40.3	101	51 - 142
Phenanthrene	40	36.8	92	56 - 119
Phenol	40	17.0	43	18 - 69
Pyrene	40	39.8	100	62 - 117
Pyridine	40	19.3	48	22 - 75
Safrole	40	33.6	84	49 - 114
bis(-2-Chloroethoxy)methane	40	37.9	95	56 - 112

Comments:

Samples in Batch: AB34980

PN: 12100043

(1)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

To:

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 1330
Leo Lapsi	10/25/12 1500	[illegible]	10/25/12 1500

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-231
SGD Complete? Yes
Site Specific QA/QC? n/a

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	Dissolved SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
VOC + BNA	MHK_PZ-07	10/24/12	9:18	GW	X					2	–	
VOA only	TRIP BLANK	10/08/12	7:20	GW	X	X				3	–	Trip blank prepared by EAI.

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

November 01, 2012

Gerardo Millan-Ramos
Mail Code OSRR07-1
US EPA New England Region 1

Project Number: 12100043
Project: Mohawk Tannery - Nashua, NH
Analysis: VOAs in Water
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, method 5030B, rev 2.0 SW-846, Rev 2.0,1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Date Samples Received by the Laboratory: 10/25/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB35041
Date of Collection:	10/24/2012	Matrix	GW
Date of Extraction:	10/26/12	Amount Prepared	5 mL
Date of Analysis:	10/26/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	MHK_PZ-07	Lab Sample ID:	AB35041
Date of Collection:	10/24/2012	Matrix	GW
Date of Extraction:	10/26/12	Amount Prepared	5 mL
Date of Analysis:	10/26/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	112	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	97	78 - 111

Comments:

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/26/12	Amount Prepared	5.0 mL
Date of Analysis:	10/26/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Mohawk Tannery - Nashua, NH

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	GW
Date of Extraction:	10/26/12	Amount Prepared	5.0 mL
Date of Analysis:	10/26/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	100	85 - 118
1,4-Bromofluorobenzene	96	78 - 111

Comments: Laboratory blank is associated with all samples in this project.

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB35042
Date of Collection:	10/8/2012	Matrix	GW
Date of Extraction:	10/26/12	Amount Prepared	5 mL
Date of Analysis:	10/26/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	J
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	J
75-35-4	1,1-Dichloroethylene	ND	1.0	J
563-58-6	1,1-Dichloropropene	ND	1.0	J
75-34-3	1,1-dichloroethane	ND	1.0	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	J
96-18-4	1,2,3-Trichloropropane	ND	1.0	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	J
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	J
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	J
106-93-4	1,2-Dibromoethane	ND	1.0	J
95-50-1	1,2-Dichlorobenzene	ND	1.0	J
107-06-2	1,2-Dichloroethane	ND	1.0	J
78-87-5	1,2-Dichloropropane	ND	1.0	J
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	J
142-28-9	1,3-Dichloropropane	ND	1.0	J
106-46-7	1,4-Dichlorobenzene	ND	1.0	J
594-20-7	2,2-Dichloropropane	ND	1.0	J
78-93-3	2-Butanone (MEK)	ND	1.0	J
95-49-8	2-Chlorotoluene	ND	1.0	J
591-78-6	2-Hexanone	ND	1.0	J
67-64-1	2-Propanone (acetone)	ND	1.0	J
106-43-4	4-Chlorotoluene	ND	1.0	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	J
107-13-1	Acrylonitrile	ND	1.0	J
71-43-2	Benzene	ND	1.0	J
108-86-1	Bromobenzene	ND	1.0	J
74-97-5	Bromochloromethane	ND	1.0	J
75-27-4	Bromodichloromethane	ND	1.0	J
75-25-2	Bromoform	ND	1.0	J
74-83-9	Bromomethane	ND	1.0	J
75-15-0	Carbon Disulfide	ND	1.0	J
56-23-5	Carbon tetrachloride	ND	1.0	J
108-90-7	Chlorobenzene	ND	1.0	J
75-00-3	Chloroethane	ND	1.0	J
67-66-3	Chloroform	ND	1.0	J

Mohawk Tannery - Nashua, NH

VOAs in Water

Client Sample ID:	TRIP BLANK	Lab Sample ID:	AB35042
Date of Collection:	10/8/2012	Matrix	GW
Date of Extraction:	10/26/12	Amount Prepared	5 mL
Date of Analysis:	10/26/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	J
124-48-1	Dibromochloromethane	ND	1.0	J
74-95-3	Dibromomethane	ND	1.0	J
75-71-8	Dichlorodifluoromethane	ND	1.0	J
60-29-7	Ethyl Ether	ND	1.0	J
100-41-4	Ethylbenzene	ND	1.0	J
87-68-3	Hexachlorobutadiene	ND	1.0	J
98-82-8	Isopropylbenzene	ND	1.0	J
108-38-3/106-42-	M/P Xylene	ND	2.0	J
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	J
75-09-2	Methylene Chloride	ND	1.0	J
104-51-8	N-Butylbenzene	ND	1.0	J
103-65-1	N-Propylbenzene	ND	1.0	J
91-20-3	Naphthalene	ND	1.0	J
95-47-6	Ortho Xylene	ND	1.0	J
99-87-6	Para-Isopropyltoluene	ND	1.0	J
135-98-8	Sec-Butylbenzene	ND	1.0	J
100-42-5	Styrene	ND	1.0	J
98-06-6	Tert-Butylbenzene	ND	1.0	J
127-18-4	Tetrachloroethylene	ND	1.0	J
109-99-9	Tetrahydrofuran	ND	1.0	J
108-88-3	Toluene	ND	1.0	J
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	J
79-01-6	Trichloroethylene	ND	1.0	J
75-69-4	Trichlorofluoromethane	ND	1.0	J
108-05-4	Vinyl Acetate	ND	1.0	J
75-01-4	Vinyl Chloride	ND	1.0	J
10061-01-5	c-1,3-dichloropropene	ND	1.0	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	J
10061-02-6	t-1,3-Dichloropropene	ND	1.0	J

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Comments: This sample was received and analyzed out of hold time.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Mohawk Tannery - Nashua, NH

Sample ID: AB35041

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	20	ND	20	100	67 - 129
1,1,1-Trichloroethane	20	ND	22	110	75 - 139
1,1,2,2-Tetrachloroethane	20	ND	20	100	50 - 142
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	ND	23	115	55 - 135
1,1,2-Trichloroethane	20	ND	21	105	62 - 142
1,1-Dichloroethylene	20	ND	21	105	80 - 138
1,1-Dichloropropene	20	ND	21	105	73 - 131
1,1-dichloroethane	20	ND	22	110	61 - 152
1,2,3-Trichlorobenzene	20	ND	19	95	49 - 143
1,2,3-Trichloropropane	20	ND	19	95	53 - 135
1,2,4-Trichlorobenzene	20	ND	19	95	63 - 131
1,2,4-Trimethylbenzene	20	ND	20	100	79 - 142
1,2-Dibromo-3-Chloropropane	20	ND	20	100	28 - 122
1,2-Dibromoethane	20	ND	20	100	53 - 139
1,2-Dichlorobenzene	20	ND	20	100	74 - 129
1,2-Dichloroethane	20	ND	22	110	61 - 142
1,2-Dichloropropane	20	ND	20	100	71 - 126
1,3,5-Trimethylbenzene	20	ND	20	100	77 - 140
1,3-Dichlorobenzene	20	ND	20	100	78 - 127
1,3-Dichloropropane	20	ND	20	100	63 - 130
1,4-Dichlorobenzene	20	ND	19	95	72 - 131
2,2-Dichloropropane	20	ND	22	110	50 - 139
2-Butanone (MEK)	20	ND	14	70	29 - 163
2-Chlorotoluene	20	ND	19	95	74 - 134
2-Hexanone	20	ND	15	75	36 - 141
2-Propanone (acetone)	20	ND	9.7	49	29 - 164
4-Chlorotoluene	20	ND	20	100	68 - 141
4-Methyl-2-Pentanone(MIBK)	20	ND	20	100	35 - 139
Acrylonitrile	20	ND	20	100	42 - 150
Benzene	20	ND	21	105	78 - 134
Bromobenzene	20	ND	20	100	76 - 126
Bromochloromethane	20	ND	22	110	62 - 140
Bromodichloromethane	20	ND	21	105	62 - 133
Bromoform	20	ND	20	100	31 - 133
Bromomethane	20	ND	21	105	58 - 148
Carbon Disulfide	20	ND	21	105	66 - 135
Carbon tetrachloride	20	ND	22	110	62 - 146
Chlorobenzene	20	ND	21	105	74 - 139
Chloroethane	20	ND	21	105	65 - 145
Chloroform	20	ND	22	110	60 - 144
Chloromethane	20	ND	21	105	58 - 134
Dibromochloromethane	20	ND	21	105	34 - 140
Dibromomethane	20	ND	20	100	67 - 125
Dichlorodifluoromethane	20	ND	23	115	30 - 132
Ethyl Ether	20	ND	22	110	58 - 145
Ethylbenzene	20	ND	21	105	73 - 143
Hexachlorobutadiene	20	ND	20	100	56 - 144
Isopropylbenzene	20	ND	20	100	73 - 139

M/P Xylene	40	ND	40	100	79 - 136
Methyl-t-Butyl Ether	20	ND	20	100	50 - 144
Methylene Chloride	20	ND	22	110	70 - 144
N-Butylbenzene	20	ND	21	105	68 - 143
N-Propylbenzene	20	ND	20	100	72 - 149
Naphthalene	20	ND	18	90	33 - 154
Ortho Xylene	20	ND	21	105	80 - 129
Para-Isopropyltoluene	20	ND	21	105	71 - 140
Sec-Butylbenzene	20	ND	21	105	75 - 148
Styrene	20	ND	21	105	61 - 148
Tert-Butylbenzene	20	ND	20	100	71 - 139
Tetrachloroethylene	20	ND	21	105	45 - 145
Tetrahydrofuran	20	ND	23	115	37 - 143
Toluene	20	ND	20	100	77 - 142
Trans-1,2-Dichloroethylene	20	ND	21	105	79 - 139
Trichloroethylene	20	ND	20	100	65 - 143
Trichlorofluoromethane	20	ND	23	115	58 - 161
Vinyl Acetate	20	ND	19	95	22 - 173
Vinyl Chloride	20	ND	23	115	68 - 139
c-1,3-dichloropropene	20	ND	21	105	51 - 144
cis-1,2-Dichloroethylene	20	ND	22	110	59 - 154
t-1,3-Dichloropropene	20	ND	21	105	47 - 145

Comments:

Sample ID: AB35041

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	20	100	0	40
1,1,1-Trichloroethane	20	21	105	5	16
1,1,2,2-Tetrachloroethane	20	19	95	5	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	22	110	4	40
1,1,2-Trichloroethane	20	20	100	5	40
1,1-Dichloroethylene	20	20	100	5	35
1,1-Dichloropropene	20	20	100	5	40
1,1-dichloroethane	20	21	105	5	40
1,2,3-Trichlorobenzene	20	19	95	0	40
1,2,3-Trichloropropane	20	20	100	5	40
1,2,4-Trichlorobenzene	20	19	95	0	40
1,2,4-Trimethylbenzene	20	20	100	0	40
1,2-Dibromo-3-Chloropropane	20	20	100	0	40
1,2-Dibromoethane	20	20	100	0	40
1,2-Dichlorobenzene	20	19	95	5	40
1,2-Dichloroethane	20	21	105	5	23
1,2-Dichloropropane	20	20	100	0	40
1,3,5-Trimethylbenzene	20	20	100	0	40
1,3-Dichlorobenzene	20	20	100	0	40
1,3-Dichloropropane	20	20	100	0	40
1,4-Dichlorobenzene	20	19	95	0	21
2,2-Dichloropropane	20	21	105	5	40
2-Butanone (MEK)	20	19	95	30	40
2-Chlorotoluene	20	19	95	0	40
2-Hexanone	20	19	95	24	40
2-Propanone (acetone)	20	17	85	55	40
4-Chlorotoluene	20	20	100	0	40
4-Methyl-2-Pentanone(MIBK)	20	21	105	5	40
Acrylonitrile	20	22	110	10	40
Benzene	20	21	105	0	14
Bromobenzene	20	20	100	0	40
Bromochloromethane	20	21	105	5	40
Bromodichloromethane	20	20	100	5	21
Bromoform	20	19	95	5	40
Bromomethane	20	21	105	0	40
Carbon Disulfide	20	21	105	0	40
Carbon tetrachloride	20	21	105	5	19
Chlorobenzene	20	20	100	5	40
Chloroethane	20	21	105	0	40
Chloroform	20	22	110	0	16
Chloromethane	20	21	105	0	40
Dibromochloromethane	20	21	105	0	36
Dibromomethane	20	20	100	0	40
Dichlorodifluoromethane	20	22	110	4	40
Ethyl Ether	20	22	110	0	40
Ethylbenzene	20	20	100	5	40
Hexachlorobutadiene	20	18	90	11	40
Isopropylbenzene	20	20	100	0	40
M/P Xylene	40	39	98	3	40
Methyl-t-Butyl Ether	20	21	105	5	40
Methylene Chloride	20	21	105	5	40
N-Butylbenzene	20	20	100	5	40
N-Propylbenzene	20	20	100	0	40

Naphthalene	20	19	95	5	40
Ortho Xylene	20	20	100	5	40
Para-Isopropyltoluene	20	20	100	5	40
Sec-Butylbenzene	20	20	100	5	40
Styrene	20	21	105	0	40
Tert-Butylbenzene	20	20	100	0	40
Tetrachloroethylene	20	22	110	5	40
Tetrahydrofuran	20	23	115	0	40
Toluene	20	20	100	0	40
Trans-1,2-Dichloroethylene	20	21	105	0	40
Trichloroethylene	20	20	100	0	22
Trichlorofluoromethane	20	22	110	4	40
Vinyl Acetate	20	18	90	5	40
Vinyl Chloride	20	23	115	0	19
c-1,3-dichloropropene	20	21	105	0	40
cis-1,2-Dichloroethylene	20	21	105	5	40
t-1,3-Dichloropropene	20	21	105	0	40

Comments:

Laboratory Duplicate Results

Mohawk Tannery - Nashua, NH

Sample ID: AB35041

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	30
1,1,1-Trichloroethane	ND	ND	ND	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	30
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	30
1,1,2-Trichloroethane	ND	ND	ND	30
1,1-Dichloroethylene	ND	ND	ND	30
1,1-Dichloropropene	ND	ND	ND	30
1,1-dichloroethane	ND	ND	ND	30
1,2,3-Trichlorobenzene	ND	ND	ND	30
1,2,3-Trichloropropane	ND	ND	ND	30
1,2,4-Trichlorobenzene	ND	ND	ND	30
1,2,4-Trimethylbenzene	ND	ND	ND	30
1,2-Dibromo-3-Chloropropane	ND	ND	ND	30
1,2-Dibromoethane	ND	ND	ND	30
1,2-Dichlorobenzene	ND	ND	ND	30
1,2-Dichloroethane	ND	ND	ND	30
1,2-Dichloropropane	ND	ND	ND	30
1,3,5-Trimethylbenzene	ND	ND	ND	30
1,3-Dichlorobenzene	ND	ND	ND	30
1,3-Dichloropropane	ND	ND	ND	30
1,4-Dichlorobenzene	ND	ND	ND	30
2,2-Dichloropropane	ND	ND	ND	30
2-Butanone (MEK)	ND	ND	ND	30
2-Chlorotoluene	ND	ND	ND	30
2-Hexanone	ND	ND	ND	30
2-Propanone (acetone)	ND	ND	ND	30
4-Chlorotoluene	ND	ND	ND	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	30
Acrylonitrile	ND	ND	ND	30
Benzene	ND	ND	ND	30
Bromobenzene	ND	ND	ND	30
Bromochloromethane	ND	ND	ND	30
Bromodichloromethane	ND	ND	ND	30
Bromoform	ND	ND	ND	30
Bromomethane	ND	ND	ND	30
Carbon Disulfide	ND	ND	ND	30
Carbon tetrachloride	ND	ND	ND	30
Chlorobenzene	ND	ND	ND	30
Chloroethane	ND	ND	ND	30
Chloroform	ND	ND	ND	30
Chloromethane	ND	ND	ND	30
Dibromochloromethane	ND	ND	ND	30
Dibromomethane	ND	ND	ND	30
Dichlorodifluoromethane	ND	ND	ND	30
Ethyl Ether	ND	ND	ND	30
Ethylbenzene	ND	ND	ND	30
Hexachlorobutadiene	ND	ND	ND	30
Isopropylbenzene	ND	ND	ND	30
M/P Xylene	ND	ND	ND	30

Methyl-t-Butyl Ether	ND	ND	ND	30
Methylene Chloride	ND	ND	ND	30
N-Butylbenzene	ND	ND	ND	30
N-Propylbenzene	ND	ND	ND	30
Naphthalene	ND	ND	ND	30
Ortho Xylene	ND	ND	ND	30
Para-Isopropyltoluene	ND	ND	ND	30
Sec-Butylbenzene	ND	ND	ND	30
Styrene	ND	ND	ND	30
Tert-Butylbenzene	ND	ND	ND	30
Tetrachloroethylene	ND	ND	ND	30
Tetrahydrofuran	ND	ND	ND	30
Toluene	ND	ND	ND	30
Trans-1,2-Dichloroethylene	ND	ND	ND	30
Trichloroethylene	ND	ND	ND	30
Trichlorofluoromethane	ND	ND	ND	30
Vinyl Acetate	ND	ND	ND	30
Vinyl Chloride	ND	ND	ND	30
c-1,3-dichloropropene	ND	ND	ND	30
cis-1,2-Dichloroethylene	ND	ND	ND	30
t-1,3-Dichloropropene	ND	ND	ND	30

Laboratory Fortified Blank (LFB) Results

Mohawk Tannery - Nashua, NH

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	18	90	79 - 136
1,1,1-Trichloroethane	20	20	100	75 - 146
1,1,2,2-Tetrachloroethane	20	18	90	62 - 141
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21	105	56 - 130
1,1,2-Trichloroethane	20	18	90	75 - 138
1,1-Dichloroethylene	20	20	100	75 - 136
1,1-Dichloropropene	20	18	90	77 - 137
1,1-dichloroethane	20	20	100	76 - 142
1,2,3-Trichlorobenzene	20	18	90	64 - 143
1,2,3-Trichloropropane	20	18	90	66 - 133
1,2,4-Trichlorobenzene	20	18	90	80 - 131
1,2,4-Trimethylbenzene	20	18	90	74 - 155
1,2-Dibromo-3-Chloropropane	20	18	90	37 - 139
1,2-Dibromoethane	20	18	90	72 - 135
1,2-Dichlorobenzene	20	18	90	85 - 128
1,2-Dichloroethane	20	19	95	74 - 138
1,2-Dichloropropane	20	18	90	83 - 124
1,3,5-Trimethylbenzene	20	19	95	80 - 145
1,3-Dichlorobenzene	20	18	90	84 - 130
1,3-Dichloropropane	20	18	90	77 - 129
1,4-Dichlorobenzene	20	18	90	82 - 128
2,2-Dichloropropane	20	21	105	32 - 171
2-Butanone (MEK)	20	21	105	38 - 179
2-Chlorotoluene	20	18	90	78 - 134
2-Hexanone	20	21	105	45 - 158
2-Propanone (acetone)	20	21	105	14 - 209
4-Chlorotoluene	20	18	90	75 - 144
4-Methyl-2-Pentanone(MIBK)	20	19	95	40 - 144
Acrylonitrile	20	20	100	52 - 154
Benzene	20	19	95	83 - 130
Bromobenzene	20	19	95	85 - 126
Bromochloromethane	20	20	100	69 - 137
Bromodichloromethane	20	18	90	70 - 143
Bromoform	20	18	90	51 - 136
Bromomethane	20	20	100	65 - 140
Carbon Disulfide	20	19	95	68 - 140
Carbon tetrachloride	20	19	95	70 - 144
Chlorobenzene	20	18	90	84 - 131
Chloroethane	20	19	95	70 - 134
Chloroform	20	20	100	76 - 141
Chloromethane	20	19	95	63 - 123
Dibromochloromethane	20	19	95	39 - 154
Dibromomethane	20	18	90	79 - 124
Dichlorodifluoromethane	20	20	100	37 - 117
Ethyl Ether	20	20	100	67 - 140
Ethylbenzene	20	18	90	81 - 133
Hexachlorobutadiene	20	19	95	68 - 146
Isopropylbenzene	20	19	95	78 - 137
M/P Xylene	40	36	90	68 - 155
Methyl-t-Butyl Ether	20	19	95	63 - 144
Methylene Chloride	20	20	100	75 - 140
N-Butylbenzene	20	19	95	69 - 147

N-Propylbenzene	20	19	95	76 - 138
Naphthalene	20	17	85	53 - 155
Ortho Xylene	20	18	90	85 - 135
Para-Isopropyltoluene	20	19	95	77 - 141
Sec-Butylbenzene	20	19	95	80 - 141
Styrene	20	19	95	82 - 139
Tert-Butylbenzene	20	19	95	75 - 144
Tetrachloroethylene	20	18	90	32 - 173
Tetrahydrofuran	20	20	100	47 - 149
Toluene	20	18	90	85 - 134
Trans-1,2-Dichloroethylene	20	20	100	80 - 138
Trichloroethylene	20	18	90	76 - 135
Trichlorofluoromethane	20	20	100	60 - 149
Vinyl Acetate	20	18	90	38 - 187
Vinyl Chloride	20	21	105	66 - 133
c-1,3-dichloropropene	20	19	95	68 - 149
cis-1,2-Dichloroethylene	20	20	100	76 - 143
t-1,3-Dichloropropene	20	19	95	62 - 160

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	19	95	5	50
1,1,1-Trichloroethane	20	100	0	50
1,1,2,2-Tetrachloroethane	20	100	11	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	19	95	10	50
1,1,2-Trichloroethane	21	105	15	50
1,1-Dichloroethylene	18	90	11	52
1,1-Dichloropropene	19	95	5	50
1,1-dichloroethane	20	100	0	50
1,2,3-Trichlorobenzene	19	95	5	50
1,2,3-Trichloropropane	20	100	11	50
1,2,4-Trichlorobenzene	18	90	0	50
1,2,4-Trimethylbenzene	18	90	0	50
1,2-Dibromo-3-Chloropropane	20	100	11	50
1,2-Dibromoethane	21	105	15	50
1,2-Dichlorobenzene	18	90	0	50
1,2-Dichloroethane	21	105	10	50
1,2-Dichloropropane	20	100	11	50
1,3,5-Trimethylbenzene	18	90	5	50
1,3-Dichlorobenzene	18	90	0	50
1,3-Dichloropropane	20	100	11	50
1,4-Dichlorobenzene	18	90	0	50
2,2-Dichloropropane	18	90	15	50
2-Butanone (MEK)	20	100	5	50
2-Chlorotoluene	17	85	6	50
2-Hexanone	21	105	0	50
2-Propanone (acetone)	19	95	10	50
4-Chlorotoluene	18	90	0	50
4-Methyl-2-Pentanone(MIBK)	22	110	15	50
Acrylonitrile	23	115	14	50
Benzene	20	100	5	50
Bromobenzene	18	90	5	50
Bromochloromethane	21	105	5	50
Bromodichloromethane	20	100	11	50
Bromoform	20	100	11	50
Bromomethane	19	95	5	50
Carbon Disulfide	19	95	0	50
Carbon tetrachloride	19	95	0	50
Chlorobenzene	19	95	5	34
Chloroethane	19	95	0	50
Chloroform	21	105	5	50
Chloromethane	19	95	0	50
Dibromochloromethane	20	100	5	50
Dibromomethane	20	100	11	50
Dichlorodifluoromethane	18	90	11	50
Ethyl Ether	22	110	10	50
Ethylbenzene	19	95	5	50
Hexachlorobutadiene	16	80	17	50
Isopropylbenzene	18	90	5	50
M/P Xylene	37	93	3	50
Methyl-t-Butyl Ether	21	105	10	50
Methylene Chloride	21	105	5	50
N-Butylbenzene	18	90	5	50
N-Propylbenzene	18	90	5	50
Naphthalene	19	95	11	50
Ortho Xylene	19	95	5	50

Para-Isopropyltoluene	18	90	5	50
Sec-Butylbenzene	18	90	5	50
Styrene	20	100	5	50
Tert-Butylbenzene	18	90	5	50
Tetrachloroethylene	19	95	5	50
Tetrahydrofuran	25	125	22	50
Toluene	19	95	5	50
Trans-1,2-Dichloroethylene	20	100	0	50
Trichloroethylene	19	95	5	27
Trichlorofluoromethane	20	100	0	50
Vinyl Acetate	19	95	5	50
Vinyl Chloride	19	95	10	50
c-1,3-dichloropropene	20	100	5	50
cis-1,2-Dichloroethylene	20	100	0	50
t-1,3-Dichloropropene	21	105	10	50

Samples in Batch: AB35041, AB35042

PN: 12100043

(1)

Shipping Group: 1

Chain-of-Custody

SANBORN HEAD

20 Foundry Street
Concord, NH 03301
P (603) 229-1900
F (603) 229-1919

To:

USEPA Region 1
New England Regional Laboratory
11 Technology Drive
North Chelmsford, MA 01863-2431

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	10/25/12 13:30	[signature]	10/25/12 1330
Leo Lapsi	10/25/12 1500	[signature]	10/25/12 1500

Project Information

Name: Mohawk Tannery Southern Parcel
Number: 2158.01
Location: Nashua, New Hampshire
QA Manager: K. Dubois kdubois@sanbornhead.com
Project Manager: T. White twhite@sanbornhead.com
NHDES Site # 198404002

Deliverable Information

TAT: Standard
Delivery Method: Alpha Courier
Temp. Blank in Cooler? Yes

Other Information

SGD Number MT2-231
SGD Complete? Yes
Site Specific QA/QC? n/a

Lab ID (Lab Use Only)	Sample Name	Collection Date	Collection Time	Matrix	VOCs $VOAMW	Dissolved SVOCs $BNAW				# of Containers	MeOH Vial #	Remarks:
VOC + BNA	MHK_PZ-07	10/24/12	9:18	GW	X					2	–	
VOA only	TRIP BLANK	10/08/12	7:20	GW	X	X				3	–	Trip blank prepared by EAI.

APPENDIX A.3

Alpha Analytical Validation Reports and Laboratory Reports

US EPA Approval Signature

2-4-13
Date

February 1, 2013

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square, Suite 100
Boston, MA 02109

Re: TO No. 85, Task No. 1, TDF No. 2844
Case No. 2158.01, SDG No. (Lab #) L1219108, L1219354, L1219355, L1219416
Alpha Analytical, Westboro, MA
Mohawk Tannery Southern Parcel, Nashua NH
Stage_2A_Validation_Manual (S2AVM)

Chromium:

56/Soil/ MHK_SS-101_0-.5, MHK_SS-102_0-.5, MHK_SS-103_0-.5, MHK_SS-104_0-.5, MHK_SS-105_0-.5, MHK_SS-106_0-.5, MHK_SS-107_0-.5, MHK_SS-107_1-2, MHK_SS-108_0-.5 MHK_SS-109_0-.5, MHK_SS-110_0-.5, MHK_SS-110_1-2 MHK_SS-111_1-2, MHK_SS-112_0-.5, MHK_SS-113_0-.5, MHK_SS-114_0-.5, MHK_SS-115_0-.5, MHK_SS-116_0-.5, MHK_SS-116_1-2, MHK_SS-118_0-.5, MHK_SS-119_0-.5, MHK_SS-120_0-.5, MHK_SS-121_0-.5, MHK_SS-122_0-.5, MHK_SS-122_1-2, MHK_SS-123_0-.5, MHK_SS-124_0-.5, MHK_SS-125_0-.5, MHK_SS-126_0-.5, MHK_SS-127_0-.5, MHK_SS-128_0-.5, MHK_SS-129_0-.5, MHK_SS-130_0-.5, MHK_SS-131_0-.5, MHK_SS-132_0-.5, MHK_SS-133_0-.5, MHK_SS-134_0-.5, MHK_SS-135_0-.5, MHK_SS-136_0-.5, MHK_SS-137_0-.5, MHK_SS-137_1-2, MHK_SS-139_0-.5, MHK_SS-139_1-2, MHK_SS-140_1-2, MHK_SS-141_0-.5, MHK_SS-142_0-.5, MHK_SS-143_0-.5, MHK_SS-144_0-.5, MHK_SS-146_0-.5, MHK_SS-147_0-.5, MHK_SS-148_0-.5, MHK_SS-149_0-.5, MHK_SS-150_0-.5, OW-302, OW-303, OW-304
(Field duplicate pair: MHK_SS-114_0-.5/OW-302)
(Field duplicate pair: MHK_SS-129_0-.5/OW-303)
(Field duplicate pair: MHK_SS-133_0-.5/OW-304)

Chromium/Hexavalent Chromium/pH/ORP:

13/Soil/ MHK_SS-111_0-.5, MHK_SS-117_0-.5, MHK_SS-117_1-2, MHK_SS-138_0-.5, MHK_SS-138_1-2, MHK_SS-140_0-.5, MHK_SS-145_0-.5, MHK_SS-151_0-.5, MHK_SS-152_0-.5, MHK_SS-153_0-.5, MHK_SS-154_0-.5, MHK_SS-155_0-.5, OW-301
(Field duplicate pair: MHK_SS-140_0-.5/OW-301)

1/Equipment Blank/ EQUIP BLANK (Cr and Hexavalent Cr)

2/PE/ MS01708 (Cr), SRS1474 (Hexavalent Cr)

Dear Mr. Millan-Ramos:

A stage 2A manual validation was performed on the inorganic analytical data for 69 soil samples, one equipment blank, and two performance evaluation samples collected by Sanborn, Head & Associates, Inc. for the U.S. EPA at the Mohawk Tannery Southern Parcel Site in Nashua, NH. The samples were analyzed according to USEPA SW-846 method 6010C for ICP-AES, 7196A for Hexavalent Chromium (Colorimetric), 9045C for Soil and Waste pH, and ASTM D1498 for Oxidation-Reduction Potential. The samples were validated using first the criteria in the specified methods; and the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012, which references the laboratory SOPs; then the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, January 2010; defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996, Part IV Inorganic Data Validation Functional Guidelines, November 2008 procedures; and finally to EPA Region I's Environmental Services Assistance Team Inorganic Data Validation SOP ESAT-01-0081 (03/30/07).

The data were evaluated based on the following parameters:

N/A	•	Data Completeness
	•	Preservation and Technical Holding Times
N/A	•	ICP-MS Tune
N/A	•	Calibrations
*	•	Blanks
N/A	•	ICP-AES Interference Check Sample
N/A	•	ICP-MS Interference Check Sample
N/A	•	ICP-MS Internal Standards
*	•	Matrix Spikes
*	•	Laboratory Control Sample
*	•	Laboratory Duplicate Samples
*	•	Field Duplicates
N/A	•	ICP Serial Dilutions
*	•	Performance Evaluation Samples/Accuracy Check
N/A	•	Analyte Quantitation and Reported Quantitation Limits

N/A – Not applicable
* – All criteria were met for this parameter.
Electronic Data Review Reports were not available for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Two single blind performance evaluation (PE) samples MS01708 (Cr), SRS1474 (Hexavalent Cr) were evaluated for this SDG. All analytes were scored "Within Limits". No action was required.

Data validation indicated some data quality problems. ORP results were qualified due to the exceeded 24 hour holding time. See the attached worksheets for details. The results reported on the Data Summary Table are usable for the site objectives.

Sincerely,
TechLaw, Inc.

Robert Peary
Sr. Chemist

Louis Macri
ESAT Program Manager

Attachments: Data Summary Table
Data Validation Worksheets
Support Documentation
PE Score Results
Communications
Field Notes

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro **SDG (Lab #)**: L1219108 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics

Sample No.:	MHK_SS-107_0-.5		MHK_SS-107_1-2		MHK_SS-110_0-.5		MHK_SS-110_1-2		MHK_SS-116_0-.5		MHK_SS-116_1-2		MHK_SS-122_0-.5		
Laboratory ID:	L1219108-01		L1219108-02		L1219108-03		L1219108-04		L1219108-05		L1219108-06		L1219108-07		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	86		86		84		90		84		81		87		
Dilution Factor:	1		1		1		1		1		1		2		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	18		13		20		12		20		14		190		6010C

Sample No.:	MHK_SS-122_1-2		MHK_SS-137_0-.5		MHK_SS-137_1-2		MHK_SS-139_0-.5		MHK_SS-139_1-2		MHK_SS-141_0-.5		MHK_SS-143_0-.5		
Laboratory ID:	L1219108-08		L1219108-09		L1219108-10		L1219108-11		L1219108-12		L1219108-13		L1219108-14		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	84		86		94		85		86		90		76		
Dilution Factor:	2		2		2		2		2		2		2		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	64		670		150		1000		620		130		96		6010C

Sample No.:	MHK_SS-147_0-.5		MHK_SS-149_0-.5		
Laboratory ID:	L1219108-15		L1219108-16		
Sample Type:	Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		
% Solids:	51		87		
Dilution Factor:	2		2		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	400		74		6010C

S2AVM DATA VALIDATION QUALIFIER COMMENTS:
NONE

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro **SDG (Lab #):** L1219108 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics

Sample No.:	MHK_SS-111_0-.5		MHK_SS-111_1-2		MHK_SS-117_0-.5		MHK_SS-117_1-2		MHK_SS-138_0-.5		MHK_SS-138_1-2		MHK_SS-140_0-.5		
Laboratory ID:	L1219108-17		L1219108-18		L1219108-19		L1219108-20		L1219108-21		L1219108-22		L1219108-23		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	85		85		92		89		73		75		84		
Dilution Factor:	1, 2(D)		2(D)		1, 2(D)		1, 2(D)		1, 2(D)		1, 100(D)		1, 2(D)		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	94	D	13	D	9.6	D	10	D	9600	D	13000	D	1900	D	6010C
Hexavalent Chromium	0.94	U	N/A		0.87	U	0.90	U	1.1	U	1.1	U	0.95	U	7196A
pH	4.2 (SU)		N/A		5.8 (SU)		4.6 (SU)		7.7 (SU)		7.7 (SU)		5.3 (SU)		9045C
Oxidation / Reduction Potential	280 (mv)	J[1]	N/A		240 (mv)	J[1]	290 (mv)	J[1]	220 (mv)	J[1]	200 (mv)	J[1]	260 (mv)	J[1]	D1498

Sample No.:	MHK_SS-140_1-2		MHK_SS-145_0-.5		MHK_SS-151_0-.5		MHK_SS-152_0-.5		MHK_SS-153_0-.5		MHK_SS-154_0-.5		MHK_SS-155_0-.5		
Laboratory ID:	L1219108-24		L1219108-25		L1219108-26		L1219108-27		L1219108-28		L1219108-29		L1219108-30		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	88		80		91		90		88		90		90		
Dilution Factor:	2(D)		1, 2(D)		1, 2(D)		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	95	D	110	D	11	D	11		24		18		73		6010C
Hexavalent Chromium	N/A		1.0	U	0.88	U	0.89	U	0.91	U	0.89	U	0.89	U	7196A
pH	N/A		4.8 (SU)		5.3 (SU)		4.6 (SU)		4.6 (SU)		4.4 (SU)		6.2 (SU)		9045C
Oxidation / Reduction Potential	N/A		290 (mv)	J[1]	260 (mv)	J[1]	270 (mv)	J[1]	300 (mv)	J[1]	300 (mv)	J[1]	270 (mv)	J[1]	D1498

Sample No.:	OW-301		Equip Blank		
Laboratory ID:	L1219108-31		L1219108-32		
Sample Type:	Field_Duplicate		Field_Blank		
Matrix/Level:	Soil/Low		Water/Low		
% Solids:	83		N/A		
Dilution Factor:	1		1		
Units:	mg/kg (dry weight)		mg/L		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	1600		0.01	U	6010C
Hexavalent Chromium	0.96	U	0.010	U	7196A
pH	6.2 (SU)		N/A		9045C
Oxidation / Reduction Potential	290 (mv)	J[1]	N/A		D1498

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

[1] The 24 hour holding time was exceeded for all ORP analyses; estimate (J) results.

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro **SDG (Lab #):** L1219354, L1219355 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics

Sample No.:	MHK_SS-101_0-.5		MHK_SS-102_0-.5		MHK_SS-103_0-.5		MHK_SS-104_0-.5		MHK_SS-105_0-.5		MHK_SS-106_0-.5		MHK_SS-108_0-.5		
Laboratory ID:	L1219354-01		L1219354-02		L1219354-03		L1219354-04		L1219354-05		L1219354-06		L1219354-07		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	90		87		84		72		74		92		76		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	480		16		21		26		25		43		22		6010C

Sample No.:	MHK_SS-109_0-.5		MHK_SS-112_0-.5		MHK_SS-113_0-.5		MHK_SS-114_0-.5		MHK_SS-115_0-.5		OW-302		
Laboratory ID:	L1219354-08		L1219354-09		L1219354-10		L1219354-11		L1219354-12		L1219354-13		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	73		79		74		86		82		85		
Dilution Factor:	1		1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	18		16		22		12		35		11		6010C

Sample No.:	MHK_SS-131_0-.5		MHK_SS-132_0-.5		MHK_SS-133_0-.5		MHK_SS-134_0-.5		MHK_SS-135_0-.5		MHK_SS-136_0-.5		MHK_SS-142_0-.5		
Laboratory ID:	L1219355-01		L1219355-02		L1219355-03		L1219355-04		L1219355-05		L1219355-06		L1219355-07		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	88		89		85		82		85		88		90		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	450		27		38		260		620		1000		40		6010C

Sample No.:	MHK_SS-144_0-.5		MHK_SS-146_0-.5		MHK_SS-148_0-.5		MHK_SS-150_0-.5		OW-304		
Laboratory ID:	L1219355-08		L1219355-09		L1219355-10		L1219355-11		L1219355-12		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	76		78		82		77		84		
Dilution Factor:	1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	220		87		270		92		36		6010C

S2AVM DATA VALIDATION QUALIFIER COMMENTS:
NONE

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro **SDG (Lab #):**: L1219416 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics

Sample No.:	MHK_SS-118_0-.5		MHK_SS-119_0-.5		MHK_SS-120_0-.5		MHK_SS-121_0-.5		MHK_SS-123_0-.5		MHK_SS-124_0-.5		MHK_SS-125_0-.5		
Laboratory ID:	L1219416-01		L1219416-02		L1219416-03		L1219416-04		L1219416-05		L1219416-06		L1219416-07		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		
% Solids:	84		47		82		80		73		82		85		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	30		620		40		170		92		1400		24		6010C

Sample No.:	MHK_SS-126_0-.5		MHK_SS-127_0-.5		MHK_SS-128_0-.5		MHK_SS-129_0-.5		MHK_SS-130_0-.5		OW-303				
Laboratory ID:	L1219416-08		L1219416-09		L1219416-10		L1219416-11		L1219416-12		L1219416-13				
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate				
Matrix/Level:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low				
% Solids:	87		92		87		87		89		87				
Dilution Factor:	1		1		1		1		1		1				
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)				
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**		
Chromium	82		30		100		180		88		190		6010C		

S2AVM DATA VALIDATION QUALIFIER COMMENTS:
NONE

ANALYTICAL REPORT

Lab Number:	L1219108
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/30/12

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1219108-01	MHK_SS-107_0-.5	NASHUA, NH	10/22/12 09:22
L1219108-02	MHK_SS-107_1-2	NASHUA, NH	10/22/12 09:38
L1219108-03	MHK_SS-110_0-.5	NASHUA, NH	10/22/12 09:55
L1219108-04	MHK_SS-110_1-2	NASHUA, NH	10/22/12 10:05
L1219108-05	MHK_SS-116_0-.5	NASHUA, NH	10/22/12 10:18
L1219108-06	MHK_SS-116_1-2	NASHUA, NH	10/22/12 10:28
L1219108-07	MHK_SS-122_0-.5	NASHUA, NH	10/22/12 11:28
L1219108-08	MHK_SS-122_1-2	NASHUA, NH	10/22/12 11:38
L1219108-09	MHK_SS-137_0-.5	NASHUA, NH	10/22/12 11:50
L1219108-10	MHK_SS-137_1-2	NASHUA, NH	10/22/12 11:58
L1219108-11	MHK_SS-139_0-.5	NASHUA, NH	10/22/12 12:10
L1219108-12	MHK_SS-139_1-2	NASHUA, NH	10/22/12 12:20
L1219108-13	MHK_SS-141_0-.5	NASHUA, NH	10/22/12 12:32
L1219108-14	MHK_SS-143_0-.5	NASHUA, NH	10/22/12 10:40
L1219108-15	MHK_SS-147_0-.5	NASHUA, NH	10/22/12 09:05
L1219108-16	MHK_SS-149_0-.5	NASHUA, NH	10/22/12 08:50
L1219108-17	MHK_SS-111_0-.5	NASHUA, NH	10/23/12 09:43
L1219108-18	MHK_SS-111_1-2	NASHUA, NH	10/23/12 09:50
L1219108-19	MHK_SS-117_0-.5	NASHUA, NH	10/23/12 10:49
L1219108-20	MHK_SS-117_1-2	NASHUA, NH	10/23/12 11:04
L1219108-21	MHK_SS-138_0-.5	NASHUA, NH	10/23/12 12:10
L1219108-22	MHK_SS-138_1-2	NASHUA, NH	10/23/12 12:24
L1219108-23	MHK_SS-140_0-.5	NASHUA, NH	10/23/12 12:39
L1219108-24	MHK_SS-140_1-2	NASHUA, NH	10/23/12 12:52
L1219108-25	MHK_SS-145-0-.5	NASHUA, NH	10/23/12 09:04
L1219108-26	MHK_SS-151-0-.5	NASHUA, NH	10/23/12 10:09
L1219108-27	MHK_SS-152-0-.5	NASHUA, NH	10/23/12 10:20
L1219108-28	MHK_SS-153-0-.5	NASHUA, NH	10/23/12 10:37
L1219108-29	MHK_SS-154-0-.5	NASHUA, NH	10/23/12 11:16
L1219108-30	MHK_SS-155-0-.5	NASHUA, NH	10/23/12 11:30
L1219108-31	OW-301	NASHUA, NH	10/23/12 12:39

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1219108-32	EQUIP BLANK	NASHUA, NH	10/23/12 13:30
L1219108-33	SRS1474	NASHUA, NH	10/23/12 12:02
L1219108-34	MS01708	NASHUA, NH	10/23/12 12:02

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) for Hexavalent Chromium in Soil have been quantitated to the limit noted in the MDL column. All other analyses have been quantitated to the limit noted in the RL column.

Metals

The WG570000-3/-4 MS/MSD recoveries for Chromium (342%/456%), performed on L1219108-07, do not apply because the sample concentration is greater than four times the spike amount added.

Oxidation/Reduction Potential

The analysis was performed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 10/30/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-01	Date Collected:	10/22/12 09:22
Client ID:	MHK_SS-107_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	18		mg/kg	0.44	0.09	1	10/26/12 09:54	10/26/12 21:09	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-02 Date Collected: 10/22/12 09:38

Client ID: MHK_SS-107_1-2 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	13		mg/kg	0.45	0.09	1	10/26/12 09:54	10/26/12 21:39	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-03	Date Collected:	10/22/12 09:55
Client ID:	MHK_SS-110_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	20		mg/kg	0.46	0.09	1	10/26/12 09:54	10/26/12 21:42	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-04 Date Collected: 10/22/12 10:05

Client ID: MHK_SS-110_1-2 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	12		mg/kg	0.42	0.08	1	10/26/12 09:54	10/26/12 21:45	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-05	Date Collected:	10/22/12 10:18
Client ID:	MHK_SS-116_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	20		mg/kg	0.45	0.09	1	10/26/12 09:54	10/26/12 21:48	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-06	Date Collected:	10/22/12 10:28
Client ID:	MHK_SS-116_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	14		mg/kg	0.47	0.09	1	10/26/12 09:54	10/26/12 21:51	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-07	Date Collected:	10/22/12 11:28
Client ID:	MHK_SS-122_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	190		mg/kg	0.87	0.17	2	10/26/12 11:31	10/26/12 21:54	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-08	Date Collected:	10/22/12 11:38
Client ID:	MHK_SS-122_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	64		mg/kg	0.90	0.18	2	10/26/12 11:31	10/26/12 22:20	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-09	Date Collected:	10/22/12 11:50
Client ID:	MHK_SS-137_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	670		mg/kg	0.89	0.18	2	10/26/12 11:31	10/26/12 22:23	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-10	Date Collected:	10/22/12 11:58
Client ID:	MHK_SS-137_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	94%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	150		mg/kg	0.81	0.16	2	10/26/12 11:31	10/26/12 22:26	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-11	Date Collected:	10/22/12 12:10
Client ID:	MHK_SS-139_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	1000		mg/kg	0.91	0.18	2	10/26/12 11:31	10/26/12 22:29	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-12 Date Collected: 10/22/12 12:20

Client ID: MHK_SS-139_1-2 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	620		mg/kg	0.87	0.17	2	10/26/12 11:31	10/26/12 22:32	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-13	Date Collected:	10/22/12 12:32
Client ID:	MHK_SS-141_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	130		mg/kg	0.84	0.17	2	10/26/12 11:31	10/26/12 22:35	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-14	Date Collected:	10/22/12 10:40
Client ID:	MHK_SS-143_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	96		mg/kg	1.0	0.21	2	10/26/12 11:31	10/26/12 22:44	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-15	Date Collected:	10/22/12 09:05
Client ID:	MHK_SS-147_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	51%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	400		mg/kg	1.5	0.30	2	10/26/12 11:31	10/26/12 22:47	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-16	Date Collected:	10/22/12 08:50
Client ID:	MHK_SS-149_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	74		mg/kg	0.89	0.18	2	10/26/12 11:31	10/26/12 22:50	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-17	Date Collected:	10/23/12 09:43
Client ID:	MHK_SS-111_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	94		mg/kg	0.90	0.18	2	10/26/12 11:31	10/26/12 22:52	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-18	Date Collected:	10/23/12 09:50
Client ID:	MHK_SS-111_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	13		mg/kg	0.90	0.18	2	10/26/12 11:31	10/26/12 22:55	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-19	Date Collected:	10/23/12 10:49
Client ID:	MHK_SS-117_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	9.6		mg/kg	0.83	0.17	2	10/26/12 11:31	10/26/12 22:58	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-20	Date Collected:	10/23/12 11:04
Client ID:	MHK_SS-117_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	10		mg/kg	0.86	0.17	2	10/26/12 11:31	10/26/12 23:01	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-21	Date Collected:	10/23/12 12:10
Client ID:	MHK_SS-138_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	73%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	9600		mg/kg	1.1	0.21	2	10/26/12 11:31	10/26/12 23:04	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-22	Date Collected:	10/23/12 12:24
Client ID:	MHK_SS-138_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	13000		mg/kg	50	10.	100	10/26/12 11:31	10/29/12 14:56	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-23	Date Collected:	10/23/12 12:39
Client ID:	MHK_SS-140_0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	1900		mg/kg	0.89	0.18	2	10/26/12 11:31	10/26/12 23:10	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-24	Date Collected:	10/23/12 12:52
Client ID:	MHK_SS-140_1-2	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	95		mg/kg	0.85	0.17	2	10/26/12 11:31	10/26/12 23:19	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-25	Date Collected:	10/23/12 09:04
Client ID:	MHK_SS-145-0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	110		mg/kg	0.95	0.19	2	10/26/12 11:31	10/26/12 23:22	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-26	Date Collected:	10/23/12 10:09
Client ID:	MHK_SS-151-0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	11		mg/kg	0.83	0.16	2	10/26/12 11:31	10/26/12 23:25	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-27 Date Collected: 10/23/12 10:20

Client ID: MHK_SS-152-0-.5 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	11		mg/kg	0.42	0.09	1	10/30/12 08:24	10/30/12 14:52	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-28	Date Collected:	10/23/12 10:37
Client ID:	MHK_SS-153-0-.5	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	24		mg/kg	0.44	0.09	1	10/30/12 08:24	10/30/12 15:02	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-29 Date Collected: 10/23/12 11:16

Client ID: MHK_SS-154-0-.5 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	18		mg/kg	0.43	0.09	1	10/30/12 08:24	10/30/12 15:05	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-30 Date Collected: 10/23/12 11:30

Client ID: MHK_SS-155-0-.5 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	73		mg/kg	0.43	0.09	1	10/30/12 08:24	10/30/12 15:07	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-31 Date Collected: 10/23/12 12:39

Client ID: OW-301 Date Received: 10/23/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	1600		mg/kg	0.46	0.09	1	10/30/12 08:24	10/30/12 15:10	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-32	Date Collected:	10/23/12 13:30
Client ID:	EQUIP BLANK	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	0.002	1	10/29/12 10:30	10/30/12 09:51	EPA 3005A	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

SAMPLE RESULTS

Lab ID:	L1219108-34	Date Collected:	10/23/12 12:02
Client ID:	MS01708	Date Received:	10/23/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	Results are reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	9.5		mg/kg	0.38	0.08	1	10/30/12 08:24	10/30/12 15:12	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108

Project Number: 2158.01 **Report Date:** 10/30/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG569974-1										
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/26/12 09:54	10/26/12 21:06	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-26 Batch: WG570000-1										
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/26/12 11:31	10/26/12 22:09	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 27-31,34 Batch: WG570082-1										
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/30/12 08:24	10/30/12 14:41	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 32 Batch: WG570378-1										
Chromium, Total	ND		mg/l	0.01	0.002	1	10/29/12 10:30	10/30/12 09:46	1,6010C	MG

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1219108

Report Date: 10/30/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG569974-2								
Chromium, Total	94		-		75-125	-		
Total Metals - Westborough Lab Associated sample(s): 07-26 Batch: WG570000-2								
Chromium, Total	94		-		75-125	-		
Total Metals - Westborough Lab Associated sample(s): 27-31,34 Batch: WG570082-2								
Chromium, Total	94		-		75-125	-		
Total Metals - Westborough Lab Associated sample(s): 32 Batch: WG570378-2								
Chromium, Total	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG569974-3 WG569974-4 QC Sample: L1219108-01 Client ID: MHK_SS-107_0-.5												
Chromium, Total	18.	17.5	32	80		32	80		75-125	0		35
Total Metals - Westborough Lab Associated sample(s): 07-26 QC Batch ID: WG570000-3 WG570000-4 QC Sample: L1219108-07 Client ID: MHK_SS-122_0-.5												
Chromium, Total	190	17.6	250	**342**	Q	270	**456**	Q	75-125	8		35
Total Metals - Westborough Lab Associated sample(s): 27-31,34 QC Batch ID: WG570082-3 WG570082-4 QC Sample: L1219108-27 Client ID: MHK_SS-152-0-.5												
Chromium, Total	11.	17.1	28	99		27	94		75-125	4		35
Total Metals - Westborough Lab Associated sample(s): 32 QC Batch ID: WG570378-3 WG570378-4 QC Sample: L1219108-32 Client ID: EQUIP BLANK												
Chromium, Total	ND	0.2	0.20	100		0.20	100		75-125	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-01
Client ID: MHK_SS-107_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 09:22
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-02
Client ID: MHK_SS-107_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 09:38
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-03
Client ID: MHK_SS-110_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 09:55
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-04
Client ID: MHK_SS-110_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 10:05
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-05
Client ID: MHK_SS-116_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 10:18
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-06
Client ID: MHK_SS-116_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 10:28
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-07
Client ID: MHK_SS-122_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 11:28
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-08
Client ID: MHK_SS-122_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 11:38
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-09
Client ID: MHK_SS-137_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 11:50
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-10
Client ID: MHK_SS-137_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 11:58
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-11
Client ID: MHK_SS-139_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 12:10
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-12
Client ID: MHK_SS-139_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 12:20
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-13
Client ID: MHK_SS-141_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 12:32
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-14
Client ID: MHK_SS-143_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 10:40
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-15
Client ID: MHK_SS-147_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 09:05
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	51		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-16
Client ID: MHK_SS-149_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/22/12 08:50
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-17
Client ID: MHK_SS-111_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 09:43
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD
pH	4.2		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	10/24/12 23:45	10/26/12 01:51	1,7196A	JT
Oxidation/Reduction Potential	280		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-18
Client ID: MHK_SS-111_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 09:50
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-19
Client ID: MHK_SS-117_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 10:49
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD
pH	5.8		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.87	0.20	1	10/24/12 23:45	10/26/12 01:51	1,7196A	JT
Oxidation/Reduction Potential	240		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-20
Client ID: MHK_SS-117_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 11:04
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	10/23/12 22:00	30,2540G	RD
pH	4.6		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.90	0.20	1	10/24/12 23:45	10/26/12 01:51	1,7196A	JT
Oxidation/Reduction Potential	290		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-21
Client ID: MHK_SS-138_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 12:10
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	7.7		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.1	0.25	1	10/24/12 23:45	10/26/12 01:52	1,7196A	JT
Oxidation/Reduction Potential	220		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-22
Client ID: MHK_SS-138_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 12:24
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	7.7		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.1	0.24	1	10/24/12 23:45	10/26/12 01:52	1,7196A	JT
Oxidation/Reduction Potential	200		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-23
Client ID: MHK_SS-140_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 12:39
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	5.3		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.95	0.21	1	10/24/12 23:45	10/26/12 01:52	1,7196A	JT
Oxidation/Reduction Potential	260		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-24
Client ID: MHK_SS-140_1-2
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 12:52
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-25
Client ID: MHK_SS-145-0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 09:04
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	4.8		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.0	0.23	1	10/24/12 23:45	10/26/12 01:52	1,7196A	JT
Oxidation/Reduction Potential	290		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-26
Client ID: MHK_SS-151-0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 10:09
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	5.3		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.88	0.20	1	10/24/12 23:45	10/26/12 01:53	1,7196A	JT
Oxidation/Reduction Potential	260		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-27
Client ID: MHK_SS-152-0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 10:20
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	4.6		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.89	0.20	1	10/24/12 23:45	10/26/12 01:53	1,7196A	JT
Oxidation/Reduction Potential	270		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-28
Client ID: MHK_SS-153-0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 10:37
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	4.6		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.91	0.20	1	10/24/12 23:45	10/26/12 01:53	1,7196A	JT
Oxidation/Reduction Potential	300		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-29
Client ID: MHK_SS-154-0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 11:16
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	4.4		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.89	0.20	1	10/24/12 23:45	10/26/12 01:54	1,7196A	JT
Oxidation/Reduction Potential	300		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-30
Client ID: MHK_SS-155-0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 11:30
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	6.2		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.89	0.20	1	10/24/12 23:45	10/26/12 01:55	1,7196A	JT
Oxidation/Reduction Potential	270		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-31
Client ID: OW-301
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 12:39
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83		%	0.10	NA	1	-	10/23/12 21:33	30,2540G	RD
pH	6.2		SU	-	NA	1	-	10/23/12 20:47	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	0.96	0.22	1	10/24/12 23:45	10/26/12 01:55	1,7196A	JT
Oxidation/Reduction Potential	290		mv	-	NA	1	-	10/24/12 14:00	68,1498	ML

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-32
Client ID: EQUIP BLANK
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/23/12 13:30
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	10/23/12 23:10	10/23/12 23:28	30,3500CR-D	EL

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

SAMPLE RESULTS

Lab ID: L1219108-33
Client ID: SRS1474
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 12:02
Date Received: 10/23/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	0.98		mg/kg	0.80	0.18	1	10/24/12 23:45	10/26/12 01:55	1,7196A	JT

Project Name: MOHAWK TANNERY SOUTHERN PAR
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 32 Batch: WG569193-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	10/23/12 23:10	10/23/12 23:26	30,3500CR-D	EL
General Chemistry - Westborough Lab for sample(s): 17,19-23,25-31,33 Batch: WG569523-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.18	1	10/24/12 23:45	10/26/12 01:49	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1219108

Report Date: 10/30/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31 Batch: WG569171-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 32 Batch: WG569193-2								
Chromium, Hexavalent	94		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31 Batch: WG569422-1								
Oxidation/Reduction Potential	102		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31,33 Batch: WG569523-2								
Chromium, Hexavalent	102		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219108
Report Date: 10/30/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 32 QC Batch ID: WG569193-4 QC Sample: L1219108-32 Client ID: EQUIP BLANK												
Chromium, Hexavalent	ND	0.1	0.098	98		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31,33 QC Batch ID: WG569523-4 WG569523-5 QC Sample: L1219108-19 Client ID: MHK_SS-117_0-.5												
Chromium, Hexavalent	ND	1170	1200	100		1100	94		75-125	9		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31 QC Batch ID: WG569171-2 QC Sample: L1219093-01 Client ID: DUP Sample						
pH	5.4	5.5	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 21-31 QC Batch ID: WG569175-1 QC Sample: L1219104-01 Client ID: DUP Sample						
Solids, Total	88.	89	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG569179-1 QC Sample: L1219108-01 Client ID: MHK_SS-107_0-.5						
Solids, Total	86.	87	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 32 QC Batch ID: WG569193-3 QC Sample: L1219108-32 Client ID: EQUIP BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31 QC Batch ID: WG569422-2 QC Sample: L1219108-17 Client ID: MHK_SS-111_0-.5						
Oxidation/Reduction Potential	280	280	mv	0		20
General Chemistry - Westborough Lab Associated sample(s): 17,19-23,25-31,33 QC Batch ID: WG569523-3 QC Sample: L1219108-19 Client ID: MHK_SS-117_0-.5						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219108
Project Number: 2158.01 **Report Date:** 10/30/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219108-01A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-02A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-03A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-04A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-05A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-06A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-07A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-08A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-09A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-10A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-11A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-12A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-13A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-14A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-15A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-16A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-17A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-17B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-18A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-19A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-19B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-20A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-20B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-21A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-21B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-22A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-22B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)

*Values in parentheses indicate holding time in days

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219108
Report Date: 10/30/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219108-23A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-23B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-24A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-25A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-25B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-26A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-26B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-27A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-27B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-28A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-28B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-29A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-29B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-30A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-30B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-31A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	CR-TI(180),TS(7)
L1219108-31B	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	ORP-9045(1),PH-9045(1)
L1219108-32A	Plastic 250ml HNO3 preserved	A	<2	2.7	Y	Absent	CR-TI(180)
L1219108-32B	Plastic 500ml unpreserved	A	7	2.7	Y	Absent	HEXCR-3500(1)
L1219108-33A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	TS100(),HEXCR-7196(30)
L1219108-34A	Amber 120ml unpreserved	A	N/A	2.7	Y	Absent	TS100(),CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219108
Project Number:	2158.01	**Report Date:**	10/30/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

68 Annual Book of ASTM (American Society for Testing and Materials) Standards following extraction by SW-846 EPA Method 9045C under the requirements of MADEP BWSC, WSC-CAM-VIB. August 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial_No:10301218:31

CHAIN OF CUSTODY

Date Rec'd in Lab: 10/23/12

ALPHA Job #: L1219108

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 10/30/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-301 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Eh, pH by 9045	Hexavalent Chromium by 7196A	Total Chromium by 6010C	Hex. Chromium by SM3500Cr-D	Sample Specific Comments	TOTAL # BOTTLES
19108-1	MHK_SS-107_0-.5	10/22/12	9:22	SO	MTS	X						1
2	MHK_SS-107_1-2	10/22/12	9:38	SO	MTS	X						1
3	MHK_SS-110_0-.5	10/22/12	9:55	SO	MTS	X						1
4	MHK_SS-110_1-2	10/22/12	10:05	SO	MTS	X						1
5	MHK_SS-116_0-.5	10/22/12	10:18	SO	MTS	X						1
6	MHK_SS-116_1-2	10/22/12	10:28	SO	MTS	X						1
7	MHK_SS-122_0-.5	10/22/12	11:28	SO	MTS	X						1
8	MHK_SS-122_1-2	10/22/12	11:38	SO	MTS	X						1
9	MHK_SS-137_0-.5	10/22/12	11:50	SO	MTS	X						1
10	MHK_SS-137_1-2	10/22/12	11:58	SO	MTS	X						1
					Container Type	G	G	G	P	P		
					Preservative	A	A	A	C	A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 1[illegible]
[illegible]	10/23/12 1430	[illegible]	10/23/12 1430

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:10301218:31

CHAIN OF CUSTODY

Date Rec'd in Lab: 10/23/12

ALPHA Job #: L1219108

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)
Date Due: 10/30/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-301 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Eh, pH by 9045	Hexavalent Chromium by 7196A	Total Chromium by 6010C	Hex. Chromium by SM3500Cr-D								Sample Specific Comments	TOTAL # BOTTLES
19108.11	MHK_SS-139_0-.5	10/22/12	12:10	SO	MTS	X													1
12	MHK_SS-139_1-2	10/22/12	12:20	SO	MTS	X													1
13	MHK_SS-141_0-.5	10/22/12	12:32	SO	MTS	X													1
14	MHK_SS-143_0-.5	10/22/12	10:40	SO	MTS	X													1
15	MHK_SS-147_0-.5	10/22/12	9:05	SO	MTS	X													1
16	MHK_SS-149_0-.5	10/22/12	8:50	SO	MTS	X													1
17	MHK_SS-111_0-.5	10/23/12	9:43	SO	MTS	X	X	X											2
18	MHK_SS-111_1-2	10/23/12	9:50	SO	MTS	X													1
19	MHK_SS-117_0-.5	10/23/12	10:49	SO	MTS	X	X	X											2
20	MHK_SS-117_1-2	10/23/12	11:04	SO	MTS	X	X	X											2
					Container Type	G	G	G	P	P									
					Preservative	A	A	A	C	A									

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/23/12 15:05	[illegible]	10/23/12 15:[illegible]
[illegible]	10/23/12 1430	[illegible]	10/23/12 1430

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:10301218:31

CHAIN OF CUSTODY

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/23/12

ALPHA Job #: L1219108

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)
Date Due: 10/30/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-301 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Eh, pH by 9045	Hexavalent Chromium by 7196A	Total Chromium by 6010C	Hex. Chromium by SM3500Cr-D	Sample Specific Comments	TOTAL # BOTTLES
19108. 21	MHK_SS-138_0-.5	10/23/12	12:10	SO	MTS	X	X	X				2
22	MHK_SS-138_1-2	10/23/12	12:24	SO	MTS	X	X	X				2
23	MHK_SS-140_0-.5	10/23/12	12:39	SO	MTS	X	X	X				2
24	MHK_SS-140_1-2	10/23/12	12:52	SO	MTS	X						1
25	MHK_SS-145_0-.5	10/23/12	9:04	SO	MTS	X	X	X				2
26	MHK_SS-151_0-.5	10/23/12	10:09	SO	MTS	X	X	X				2
27	MHK_SS-152_0-.5	10/23/12	10:20	SO	MTS	X	X	X				2
28	MHK_SS-153_0-.5	10/23/12	10:37	SO	MTS	X	X	X				2
29	MHK_SS-154_0-.5	10/23/12	11:16	SO	MTS	X	X	X				2
30	MHK_SS-155_0-.5	10/23/12	11:30	SO	MTS	X	X	X				2
					Container Type	G	G	G	P	P		
					Preservative	A	A	A	C	A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/23/12 15:25	[illegible]	10/23/12 1[illegible]
[illegible]	10/23/12 1400		10/23/12 1400

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:10301218:31

CHAIN OF CUSTODY

Date Rec'd in Lab: 10/23/12

ALPHA Job #: L1219108

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)
Date Due: 10/30/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-301 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Eh, pH by 9045	Hexavalent Chromium by 7196A	Total Chromium by 6010C	Hex. Chromium by SM3500Cr-D	Sample Specific Comments	TOTAL # BOTTLES
19108.31	OW-301	10/23/12	12:39	SO	MTS	X	X	X				2
32	EQUIP BLANK	10/23/12	13:30	AQ	MTS				X	X		2
33	SRS1474	10/23/12	12:20	SO	-			X				1
34	MS01708	10/23/12	12:20	SO	-	X						1

	Total Chromium by 6010C	Eh, pH by 9045	Hexavalent Chromium by 7196A	Total Chromium by 6010C	Hex. Chromium by SM3500Cr-D
Container Type	G	G	G	P	P
Preservative	A	A	A	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/23/12 15:05	[signature]	10/23/12 15:00
[signature]	10/23/12 1430		10/23/12 1400

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

QATS LABORATORY INSTRUCTIONS FOR HEXAVALENT CHROMIUM IN SOIL PERFORMANCE EVALUATION SAMPLES

THESE INSTRUCTIONS ARE APPLICABLE TO QATS
PES CATALOG NUMBER "SR-PES HVCS" ONLY

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with EPA methods for the analysis of hexavalent chromium soil samples.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Hexavalent Chromium

Material Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Hexavalent Chromium in Soil Performance Evaluation Samples (PESs) for analysis. This set consists of one (1) or more bottles, each containing approximately 50 grams of soil for hexavalent chromium analysis. Check the chain-of-custody record to determine the number of bottles provided for hexavalent chromium analysis. The bottle(s) should not be opened until sample preparation/analysis is to occur.

CAUTION: Store the sample(s) at 4° C ± 2° C until sample preparation/analysis is to occur. Allow sample(s) to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples are to be analyzed as described in the appropriate method or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the appropriate method or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Allow bottle(s) to reach ambient temperature before opening to remove soil for sample preparation.

Instructions for Hexavalent Chromium Soil Preparation and Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

For analysis, break the seal on the PES sample bottle and measure the prescribed amount of soil as specified in the appropriate method. The sample is ready for processing and analysis. Continue with processing and analysis as described in the appropriate method or your contract.

(E) *REPORTING*

Report the results for the full-volume sample(s) as received.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

Instructions for QATS Catalog Numbers:

90-005	**94-020**	**94-021**
94-022	**94-023**	**94-024**
95-009	**95-017-S**	**99-005**

Metals in Soil

QATS LABORATORY INSTRUCTIONS FOR LOW/MEDIUM CONCENTRATION METALS IN SOIL PERFORMANCE EVALUATION SAMPLES

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals and Heavy Metals
HAZARDOUS MATERIAL

Material Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Metals in Soil Performance Evaluation Samples (PESs). This set consists of one (1) or more bottles, each containing approximately 30 grams of homogeneous soil. Check the chain-of-custody record for descriptions and number of bottles of soil provided for metals analysis. The bottle(s) should not be opened until sample preparation or analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. The sample does not require refrigeration upon receipt. If the sample is refrigerated, allow it to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples generated from these bottle(s) are to be analyzed as described in the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) *GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Allow the sample to reach ambient temperature and mix by repeated inversions before opening to remove an aliquot for processing and analysis. When calculating the concentrations of the analytes, use 0% as the soil moisture content.

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

Instructions for Metals in Soil Analysis

Break the seal on the bottle and open carefully. To begin the analysis for metals other than mercury, weigh out an amount of the bottle contents appropriate for your analytical protocol and record the exact weight to the nearest 0.01 g. Continue with sample preparation and analysis as described in the SOW, other appropriate method, or your contract.

Instructions for Mercury in Soil Analysis

If analysis for mercury is required, weigh out an amount of the bottle contents appropriate for your analytical protocol and record the exact weight to the nearest 0.01 g. Continue with sample preparation and analysis as described in the SOW, other appropriate method, or your contract.

(E) *REPORTING*

Report the results of the original PES material, as received, in mg/Kg.

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.

CUSTODY SEAL

Date 10/23/12

Signature

CUSTODY SEAL

Date 10/25/12

Signature

ANALYTICAL REPORT

Lab Number:	L1219354
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	11/01/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1219354-01	MHK_SS-101_0-.5	NASHUA, NH	10/23/12 14:05
L1219354-02	MHK_SS-102_0-.5	NASHUA, NH	10/23/12 14:12
L1219354-03	MHK_SS-103_0-.5	NASHUA, NH	10/23/12 14:33
L1219354-04	MHK_SS-104_0-.5	NASHUA, NH	10/23/12 14:19
L1219354-05	MHK_SS-105_0-.5	NASHUA, NH	10/23/12 14:37
L1219354-06	MHK_SS-106_0-.5	NASHUA, NH	10/23/12 14:49
L1219354-07	MHK_SS-108_0-.5	NASHUA, NH	10/23/12 14:57
L1219354-08	MHK_SS-109_0-.5	NASHUA, NH	10/23/12 15:05
L1219354-09	MHK_SS-112_0-.5	NASHUA, NH	10/23/12 15:15
L1219354-10	MHK_SS-113_0-.5	NASHUA, NH	10/23/12 15:55
L1219354-11	MHK_SS-114_0-.5	NASHUA, NH	10/23/12 15:47
L1219354-12	MHK_SS-115_0-.5	NASHUA, NH	10/23/12 15:25
L1219354-13	OW-302	NASHUA, NH	10/23/12 15:47

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

Case Narrative (continued)

Metals

The WG571026-3/-4 MS/MSD recoveries for Chromium (0%/0%), performed on L1219354-01, do not apply because the sample concentration is greater than four times the spike amount added. In addition, the associated MS/MSD RPD is above the acceptance criteria for Chromium (63%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/01/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219354-01	Date Collected:	10/23/12 14:05
Client ID:	MHK_SS-101_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	480		mg/kg	0.42	--	1	10/31/12 14:50	11/01/12 08:53	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-02 Date Collected: 10/23/12 14:12

Client ID: MHK_SS-102_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	16		mg/kg	0.44	--	1	10/31/12 14:50	11/01/12 09:03	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-03 Date Collected: 10/23/12 14:33

Client ID: MHK_SS-103_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	21		mg/kg	0.46	--	1	10/31/12 14:50	11/01/12 09:06	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-04 Date Collected: 10/23/12 14:19

Client ID: MHK_SS-104_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	26		mg/kg	0.53	--	1	10/31/12 14:50	11/01/12 09:08	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219354-05	Date Collected:	10/23/12 14:37
Client ID:	MHK_SS-105_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	25		mg/kg	0.52	--	1	10/31/12 14:50	11/01/12 09:24	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-06 Date Collected: 10/23/12 14:49

Client ID: MHK_SS-106_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	43		mg/kg	0.42	--	1	10/31/12 14:50	11/01/12 09:27	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-07 Date Collected: 10/23/12 14:57

Client ID: MHK_SS-108_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	22		mg/kg	0.50	--	1	10/31/12 14:50	11/01/12 09:29	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-08 Date Collected: 10/23/12 15:05

Client ID: MHK_SS-109_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	18		mg/kg	0.52	--	1	10/31/12 14:50	11/01/12 09:31	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-09 Date Collected: 10/23/12 15:15

Client ID: MHK_SS-112_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	16		mg/kg	0.48	--	1	10/31/12 14:50	11/01/12 09:34	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219354-10	Date Collected:	10/23/12 15:55
Client ID:	MHK_SS-113_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	22		mg/kg	0.51	--	1	10/31/12 14:50	11/01/12 09:36	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-11 Date Collected: 10/23/12 15:47

Client ID: MHK_SS-114_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	12		mg/kg	0.44	--	1	10/31/12 14:50	11/01/12 09:39	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-12 Date Collected: 10/23/12 15:25

Client ID: MHK_SS-115_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	35		mg/kg	0.46	--	1	10/31/12 14:50	11/01/12 09:41	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-13 Date Collected: 10/23/12 15:47

Client ID: OW-302 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	11		mg/kg	0.45	--	1	10/31/12 14:50	11/01/12 09:44	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219354

Project Number: 2158.01 **Report Date:** 11/01/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-13 Batch: WG571026-1										
Chromium, Total	ND		mg/kg	0.40	--	1	10/31/12 14:50	11/01/12 08:49	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1219354

Report Date: 11/01/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-13 Batch: WG571026-2								
Chromium, Total	101		-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG571026-3 WG571026-4 QC Sample: L1219354-01 Client ID: MHK_SS-101_0-.5												
Chromium, Total	480	16.9	250	**0**	Q	130	**0**	Q	75-125	**63**	Q	35

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-01
Client ID: MHK_SS-101_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:05
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-02
Client ID: MHK_SS-102_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:12
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-03
Client ID: MHK_SS-103_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:33
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-04
Client ID: MHK_SS-104_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:19
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-05
Client ID: MHK_SS-105_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:37
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-06
Client ID: MHK_SS-106_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:49
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-07
Client ID: MHK_SS-108_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 14:57
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-08
Client ID: MHK_SS-109_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 15:05
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-09
Client ID: MHK_SS-112_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 15:15
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-10
Client ID: MHK_SS-113_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 15:55
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-11
Client ID: MHK_SS-114_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 15:47
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-12
Client ID: MHK_SS-115_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 15:25
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219354-13
Client ID: OW-302
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/23/12 15:47
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/26/12 01:10	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG569868-1 QC Sample: L1219200-01 Client ID: DUP Sample						
Solids, Total	88	88	%	0		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219354
Report Date: 11/01/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219354-01A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-02A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-03A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-04A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-05A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-06A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-07A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-08A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-09A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-10A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-11A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-12A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219354-13A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219354
Project Number:	2158.01	**Report Date:**	11/01/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial_No:11011215:25

CHAIN OF CUSTODY

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 10/25/12

ALPHA Job #: L1219354

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 11/1/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-302 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Sample Specific Comments	TOTAL # BOTTLES
L1219354-01	MHK_SS-101_0-.5	10/23/12	14:05	SO	MTS	X		1
-02	MHK_SS-102_0-.5	10/23/12	14:12	SO	MTS	X		1
-03	MHK_SS-103_0-.5	10/23/12	14:33	SO	MTS	X		1
-04	MHK_SS-104_0-.5	10/23/12	14:19	SO	MTS	X		1
-05	MHK_SS-105_0-.5	10/23/12	14:37	SO	MTS	X		1
-06	MHK_SS-106_0-.5	10/23/12	14:49	SO	MTS	X		1
-07	MHK_SS-108_0-.5	10/23/12	14:57	SO	MTS	X		1
-08	MHK_SS-109_0-.5	10/23/12	15:05	SO	MTS	X		1
-09	MHK_SS-112_0-.5	10/23/12	15:15	SO	MTS	X		1
-10	MHK_SS-113_0-.5	10/23/12	15:55	SO	MTS	X		1
					Container Type	G		
					Preservative	A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 13:[illegible]
[illegible]	10/25/12 16:30	[illegible]	10/25/12 16:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE: 2 OF 2

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 10/25/12

ALPHA Job #: L1219354

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)
Date Due: 11/1/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-302 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Sample Specific Comments	TOTAL # BOTTLES
L1219354-11	MHK_SS-114_0-.5	10/23/12	15:47	SO	MTS	X		1
-12	MHK_SS-115_0-.5	10/23/12	15:25	SO	MTS	X		1
-13	OW-302	10/23/12	15:47	SO	MTS	X		1
Container Type						G		
Preservative						A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 13:30
[illegible]	10/25/12 16:30	[illegible]	10/25/12 16:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:11011215:25

ANALYTICAL REPORT

Lab Number:	L1219355
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHER PARCEL
Project Number:	2158.01
Report Date:	11/01/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1219355-01	MHK_SS-131_0-.5	NASHUA, NH	10/24/12 11:22
L1219355-02	MHK_SS-132_0-.5	NASHUA, NH	10/24/12 11:11
L1219355-03	MHK_SS-133_0-.5	NASHUA, NH	10/24/12 10:57
L1219355-04	MHK_SS-134_0-.5	NASHUA, NH	10/24/12 10:40
L1219355-05	MHK_SS-135_0-.5	NASHUA, NH	10/24/12 10:30
L1219355-06	MHK_SS-136_0-.5	NASHUA, NH	10/24/12 10:21
L1219355-07	MHK_SS-142_0-.5	NASHUA, NH	10/24/12 10:06
L1219355-08	MHK_SS-144_0-.5	NASHUA, NH	10/24/12 09:46
L1219355-09	MHK_SS-146_0-.5	NASHUA, NH	10/24/12 09:32
L1219355-10	MHK_SS-148_0-.5	NASHUA, NH	10/24/12 09:15
L1219355-11	MHK_SS-150_0-.5	NASHUA, NH	10/24/12 09:02
L1219355-12	OW-304	NASHUA, NH	10/24/12 10:57

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

Case Narrative (continued)

Sample Receipt

At the client's request, L1219355-12 is reported as "OW-304".

Metals

The WG571040-3/-4 MS/MSD recoveries for Chromium (235%/467%), performed on L1219355-01, do not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 11/01/12

METALS

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-01	Date Collected:	10/24/12 11:22
Client ID:	MHK_SS-131_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	450		mg/kg	0.44	--	1	10/31/12 15:47	11/01/12 11:59	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-02	Date Collected:	10/24/12 11:11
Client ID:	MHK_SS-132_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	27		mg/kg	0.44	--	1	10/31/12 15:47	11/01/12 12:09	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-03	Date Collected:	10/24/12 10:57
Client ID:	MHK_SS-133_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	38		mg/kg	0.46	--	1	10/31/12 15:47	11/01/12 12:11	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-04	Date Collected:	10/24/12 10:40
Client ID:	MHK_SS-134_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	260		mg/kg	0.47	--	1	10/31/12 15:47	11/01/12 12:13	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-05	Date Collected:	10/24/12 10:30
Client ID:	MHK_SS-135_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	620		mg/kg	0.45	--	1	10/31/12 15:47	11/01/12 12:16	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-06	Date Collected:	10/24/12 10:21
Client ID:	MHK_SS-136_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	1000		mg/kg	0.44	--	1	10/31/12 15:47	11/01/12 12:18	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHER PARCEL **Lab Number:** L1219355

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-07 Date Collected: 10/24/12 10:06

Client ID: MHK_SS-142_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	40		mg/kg	0.44	--	1	10/31/12 15:47	11/01/12 12:40	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHER PARCEL **Lab Number:** L1219355

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-08 Date Collected: 10/24/12 09:46

Client ID: MHK_SS-144_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	220		mg/kg	0.49	--	1	10/31/12 15:47	11/01/12 12:42	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-09	Date Collected:	10/24/12 09:32
Client ID:	MHK_SS-146_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	87		mg/kg	0.49	--	1	10/31/12 15:47	11/01/12 12:45	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-10	Date Collected:	10/24/12 09:15
Client ID:	MHK_SS-148_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	270		mg/kg	0.47	--	1	10/31/12 15:47	11/01/12 12:47	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-11	Date Collected:	10/24/12 09:02
Client ID:	MHK_SS-150_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	92		mg/kg	0.50	--	1	10/31/12 15:47	11/01/12 12:50	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219355-12	Date Collected:	10/24/12 10:57
Client ID:	OW-304	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	36		mg/kg	0.45	--	1	10/31/12 15:47	11/01/12 12:52	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHER PARCEL **Lab Number:** L1219355

Project Number: 2158.01 **Report Date:** 11/01/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-12 Batch: WG571040-1										
Chromium, Total	ND		mg/kg	0.40	--	1	10/31/12 15:47	11/01/12 10:59	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHER PARCEL

Project Number: 2158.01

Lab Number: L1219355

Report Date: 11/01/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-12 Batch: WG571040-2								
Chromium, Total	94		-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01
Lab Number: L1219355
Report Date: 11/01/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG571040-3 WG571040-4 QC Sample: L1219355-01 Client ID: MHK_SS-131_0-.5												
Chromium, Total	450	17	490	**235**	Q	530	**467**	Q	75-125	8		35

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-01
Client ID: MHK_SS-131_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 11:22
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-02
Client ID: MHK_SS-132_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 11:11
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-03
Client ID: MHK_SS-133_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 10:57
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-04
Client ID: MHK_SS-134_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 10:40
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-05
Client ID: MHK_SS-135_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 10:30
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-06
Client ID: MHK_SS-136_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 10:21
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-07
Client ID: MHK_SS-142_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 10:06
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-08
Client ID: MHK_SS-144_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 09:46
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-09
Client ID: MHK_SS-146_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 09:32
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-10
Client ID: MHK_SS-148_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 09:15
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-11
Client ID: MHK_SS-150_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 09:02
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219355-12
Client ID: OW-304
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 10:57
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/26/12 01:30	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHER PARCEL
Project Number: 2158.01

Lab Number: L1219355
Report Date: 11/01/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG569875-1 QC Sample: L1219355-01 Client ID: MHK_SS-131_0-.5						
Solids, Total	88	88	%	0		20

Project Name: MOHAWK TANNERY SOUTHER PARCEL **Lab Number:** L1219355
Project Number: 2158.01 **Report Date:** 11/01/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219355-01A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-02A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-03A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-04A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-05A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-06A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-07A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-08A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-09A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-10A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-11A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219355-12A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHER PARCEL	**Lab Number:**	L1219355
Project Number:	2158.01	**Report Date:**	11/01/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE: 1 OF 2

Date Rec'd in Lab: 10/25/12

ALPHA Job #: L1219355

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)

Date Due: 11/1/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Billing Information

☒ Same as Client info PO #: 2158.01

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-304 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Sample Specific Comments	TOTAL # BOTTLES
L1219355-01	MHK_SS-131_0-.5	10/24/12	11:22	SO	MTS	X		1
-02	MHK_SS-132_0-.5	10/24/12	11:11	SO	MTS	X		1
-03	MHK_SS-133_0-.5	10/24/12	10:57	SO	MTS	X		1
-04	MHK_SS-134_0-.5	10/24/12	10:40	SO	MTS	X		1
-05	MHK_SS-135_0-.5	10/24/12	10:30	SO	MTS	X		1
-06	MHK_SS-136_0-.5	10/24/12	10:21	SO	MTS	X		1
-07	MHK_SS-142_0-.5	10/24/12	10:06	SO	MTS	X		1
-08	MHK_SS-144_0-.5	10/24/12	9:46	SO	MTS	X		1
-09	MHK_SS-146_0-.5	10/24/12	9:32	SO	MTS	X		1
-10	MHK_SS-148_0-.5	10/24/12	9:15	SO	MTS	X		1
				Container Type		G		
				Preservative		A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/25/12 17:30	[illegible]	10/25/12 17:30
[illegible]	10/25/12 16:30	[illegible]	10/25/12 16:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:11011215:52

CHAIN OF CUSTODY

PAGE: 2 OF 2

Date Rec'd in Lab: 10/25/12

ALPHA Job #: L1219355

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)

Date Due: 11/1/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-304 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Sample Specific Comments	TOTAL # BOTTLES
L1219355-11	MHK_SS-150_0-.5	10/24/12	9:02	SO	MTS	X		1
-12	OW-104	10/24/12	10:57	SO	MTS	X		1

	Total Chromium by 6010C
Container Type	G
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
Kelly M Dubois	10/25/12 13:30	Lee Lapin	10/25/12 13:30
Leo Lapin	10/25/12	[illegible]	10/25/12 16:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:11011215:52

ANALYTICAL REPORT

Lab Number:	L1219416
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	11/01/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1219416-01	MHK_SS-118_0-.5	NASHUA, NH	10/24/12 14:58
L1219416-02	MHK_SS-119_0-.5	NASHUA, NH	10/24/12 14:15
L1219416-03	MHK_SS-120_0-.5	NASHUA, NH	10/24/12 15:07
L1219416-04	MHK_SS-121_0-.5	NASHUA, NH	10/24/12 15:35
L1219416-05	MHK_SS-123_0-.5	NASHUA, NH	10/24/12 15:26
L1219416-06	MHK_SS-124_0-.5	NASHUA, NH	10/24/12 14:32
L1219416-07	MHK_SS-125_0-.5	NASHUA, NH	10/24/12 14:05
L1219416-08	MHK_SS-126_0-.5	NASHUA, NH	10/24/12 13:46
L1219416-09	MHK_SS-127_0-.5	NASHUA, NH	10/24/12 13:12
L1219416-10	MHK_SS-128_0-.5	NASHUA, NH	10/24/12 13:27
L1219416-11	MHK_SS-129_0-.5	NASHUA, NH	10/24/12 13:02
L1219416-12	MHK_SS-130_0-.5	NASHUA, NH	10/24/12 12:43
L1219416-13	OW-303	NASHUA, NH	10/24/12 13:02

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

Case Narrative (continued)

Total Chromium

The WG571175-4 MSD recovery (69%), performed on L1219416-08, does not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 11/01/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-01	Date Collected:	10/24/12 14:58
Client ID:	MHK_SS-118_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	30		mg/kg	0.45	--	1	10/31/12 15:47	11/01/12 11:15	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-02	Date Collected:	10/24/12 14:15
Client ID:	MHK_SS-119_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	47%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	620		mg/kg	0.80	--	1	10/31/12 15:47	11/01/12 11:17	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-03	Date Collected:	10/24/12 15:07
Client ID:	MHK_SS-120_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	40		mg/kg	0.47	--	1	10/31/12 15:47	11/01/12 11:20	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-04	Date Collected:	10/24/12 15:35
Client ID:	MHK_SS-121_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	170		mg/kg	0.48	--	1	10/31/12 15:47	11/01/12 11:22	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-05	Date Collected:	10/24/12 15:26
Client ID:	MHK_SS-123_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	73%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	92		mg/kg	0.54	--	1	10/31/12 15:47	11/01/12 11:25	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-06	Date Collected:	10/24/12 14:32
Client ID:	MHK_SS-124_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	1400		mg/kg	0.47	--	1	10/31/12 15:47	11/01/12 11:27	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-07	Date Collected:	10/24/12 14:05
Client ID:	MHK_SS-125_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	24		mg/kg	0.45	--	1	10/31/12 15:47	11/01/12 11:29	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-08	Date Collected:	10/24/12 13:46
Client ID:	MHK_SS-126_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	82		mg/kg	0.43	--	1	11/01/12 08:56	11/01/12 13:59	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-09	Date Collected:	10/24/12 13:12
Client ID:	MHK_SS-127_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	30		mg/kg	0.41	--	1	11/01/12 08:56	11/01/12 14:09	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-10	Date Collected:	10/24/12 13:27
Client ID:	MHK_SS-128_0-.5	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	100		mg/kg	0.44	--	1	11/01/12 08:56	11/01/12 14:11	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219416

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-11 Date Collected: 10/24/12 13:02

Client ID: MHK_SS-129_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	180		mg/kg	0.43	--	1	11/01/12 08:56	11/01/12 14:14	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219416

Project Number: 2158.01 **Report Date:** 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-12 Date Collected: 10/24/12 12:43

Client ID: MHK_SS-130_0-.5 Date Received: 10/25/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	88		mg/kg	0.43	--	1	11/01/12 08:56	11/01/12 14:16	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

SAMPLE RESULTS

Lab ID:	L1219416-13	Date Collected:	10/24/12 13:02
Client ID:	OW-303	Date Received:	10/25/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	190		mg/kg	0.43	--	1	11/01/12 08:56	11/01/12 14:19	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219416

Project Number: 2158.01 **Report Date:** 11/01/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07 Batch: WG571037-1										
Chromium, Total	ND		mg/kg	0.40	--	1	10/31/12 15:47	11/01/12 10:42	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 08-13 Batch: WG571175-1										
Chromium, Total	ND		mg/kg	0.40	--	1	11/01/12 08:56	11/01/12 12:57	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1219416

Report Date: 11/01/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG571037-2								
Chromium, Total	94		-		75-125	-		
Total Metals - Westborough Lab Associated sample(s): 08-13 Batch: WG571175-2								
Chromium, Total	94		-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1219416
Report Date: 11/01/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG571037-4 QC Sample: L1219401-01 Client ID: MS Sample												
Chromium, Total	33	19.2	53	104		-	-		75-125	-		35
Total Metals - Westborough Lab Associated sample(s): 08-13 QC Batch ID: WG571175-3 WG571175-4 QC Sample: L1219416-08 Client ID: MHK_SS-126_0-.5												
Chromium, Total	82	17.5	100	103		94	**69**	Q	75-125	6		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG571037-3 QC Sample: L1219401-01 Client ID: DUP Sample						
Chromium, Total	33	32	mg/kg	3		35

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-01
Client ID: MHK_SS-118_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 14:58
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-02
Client ID: MHK_SS-119_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 14:15
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	47		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-03
Client ID: MHK_SS-120_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 15:07
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-04
Client ID: MHK_SS-121_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 15:35
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-05
Client ID: MHK_SS-123_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 15:26
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-06
Client ID: MHK_SS-124_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 14:32
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-07
Client ID: MHK_SS-125_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 14:05
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-08
Client ID: MHK_SS-126_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 13:46
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-09
Client ID: MHK_SS-127_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 13:12
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-10
Client ID: MHK_SS-128_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 13:27
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-11
Client ID: MHK_SS-129_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 13:02
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-12
Client ID: MHK_SS-130_0-.5
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 12:43
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

SAMPLE RESULTS

Lab ID: L1219416-13
Client ID: OW-303
Sample Location: NASHUA, NH
Matrix: Soil

Date Collected: 10/24/12 13:02
Date Received: 10/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	10/26/12 16:10	30,2540G	RD

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1219416
Report Date: 11/01/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG570103-1 QC Sample: L1219416-01 Client ID: MHK_SS-118_0-.5						
Solids, Total	84	84	%	0		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1219416
Project Number: 2158.01 **Report Date:** 11/01/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219416-01A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-02A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-03A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-04A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-05A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-06A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-07A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-08A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-09A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-10A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-11A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-12A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)
L1219416-13A	Amber 120ml unpreserved	A	N/A	3.6	Y	Absent	CR-TI(180),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1219416
Project Number:	2158.01	**Report Date:**	11/01/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE: 1 OF 2

Date Rec'd in Lab: 10/25/12

ALPHA Job #: L1219416

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 11/1/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-303 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Sample Specific Comments	TOTAL # BOTTLES
19416.1	MHK_SS-118_0-.5	10/24/12	14:58	SO	MTS	X		1
2	MHK_SS-119_0-.5	10/24/12	14:15	SO	MTS	X		1
3	MHK_SS-120_0-.5	10/24/12	15:07	SO	MTS	X		1
4	MHK_SS-121_0-.5	10/24/12	15:35	SO	MTS	X		1
5	MHK_SS-123_0-.5	10/24/12	15:26	SO	MTS	X		1
6	MHK_SS-124_0-.5	10/24/12	14:32	SO	MTS	X		1
7	MHK_SS-125_0-.5	10/24/12	14:05	SO	MTS	X		1
8	MHK_SS-126_0-.5	10/24/12	13:46	SO	MTS	X		1
9	MHK_SS-127_0-.5	10/24/12	13:12	SO	MTS	X		1
10	MHK_SS-128_0-.5	10/24/12	13:27	SO	MTS	X		1
				Container Type		G		
				Preservative		A		

Relinquished By:	Date/Time	Received By:	Date/Time
Kelly M Dubois	10/25/12 13:30	Lee Lawson	10/25/12 1334
Lee Lawson	10/25/12 1630		10/25/12 1630

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:11011216:54

CHAIN OF CUSTODY

PAGE: 2 OF 2

Date Rec'd in Lab: 10/25/12

ALPHA Job #: L1219416

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.

Address: 20 Foundry Street

Concord, NH 03301

Phone: 603-229-1900

Fax: 603-229-1919

Email: kdubois@sanbornhead.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel

Project Location: Nashua, NH

Project #: 2158.01

Project Manager: T. White/K. Dubois

ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)

Date Due: 11/1/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-303 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	Sample Specific Comments	TOTAL # BOTTLES
19416 11	MHK_SS-129_0-.5	10/24/12	13:02	SO	MTS	X		1
12	MHK_SS-130_0-.5	10/24/12	12:43	SO	MTS	X		1
13	OW-303	10/24/12	13:02	SO	MTS	X		1
					Container Type	G		
					Preservative	A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/25/12 13:30	[illegible]	10/25/12 1530
[illegible]	10/25/12 1630	[illegible]	10/25/12 1630

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:11011216:54

US EPA Approval Signature

11-27-12
Date

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square, Suite 100
Boston, MA 02109

November 26, 2012

Re: TO No. 85, Task No. 1, TDF No. 2802
Case No. 2158.01, SDG No. L1218098
Alpha Analytical, Westboro and Mansfield, MA
Mohawk Tannery Southern Parcel, Nashua NH
Stage_2A_Validation_Manual (S2AVM)

Total Chromium and Total Organic Carbon:

17/Sediment/	MHK_SED-01_0-.3, MHK_SED-02_0-.3, MHK_SED-03_0-.3, MHK_SED-04_0-.3, MHK_SED-05_0-.3, MHK_SED-06_0-.3, MHK_SED-07_0-.3, MHK_SED-08_0-.3, MHK_SED-09_0-.3, MHK_SED-10_0-.3, MHK_SED-11_0-.3, MHK_SED-12_0-.3, MHK_SED-13_0-.3, MHK_SED-14_0-.3, MHK_SED-15_0-.3, MHK_SED-16_0-.3, OW-311 (Field duplicate pair: MHK_SED-13_0-.3/OW-311)
1/Equipment Blank/	EQUIP BLANK (Total Cr and Hexavalent Cr)
2/PE/	MS01746 (Total Cr), SRS1434 (Hexavalent Cr)

Hexavalent Chromium/pH/ORP:

4/Sediment/	MHK_SED-06_0-.3, MHK_SED-13_0-.3, MHK_SED-16_0-.3, OW-311 (Field duplicate pair: MHK_SED-13_0-.3/OW-311)

Dear Mr. Millan-Ramos:

A stage 2A manual validation was performed on the inorganic analytical data for 17 sediment samples, one equipment blank, and two performance evaluation samples collected by Sanborn, Head & Associates, Inc. for the U.S. EPA at the Mohawk Tannery Southern Parcel Site in Nashua, NH. The samples were analyzed according to USEPA SW-846 method 6010C for ICP-AES, 7196A for Hexavalent Chromium (Colorimetric), 9045D for Soil and Waste pH, ASTM D1498 for Oxidation-Reduction Potential, and the Lloyd Kahn Method for TOC in Sediment. The samples were validated using first the criteria in the specified methods; and the Sampling and Analysis Plan, Mohawk Tannery Site – Southern Parcel Study, Nashua, NH, September 2012, which references the laboratory SOPs; then the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, January 2010; defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996, Part IV Inorganic Data Validation Functional Guidelines,

November 2008 procedures; and finally to EPA Region I's Environmental Services Assistance Team Inorganic Data Validation SOP ESAT-01-0081 (03/30/07).

The data were evaluated based on the following parameters:

*	•	Data Completeness
*	•	Preservation and Technical Holding Times
N/A	•	ICP-MS Tune
N/A	•	Calibrations
*	•	Blanks
N/A	•	ICP-AES Interference Check Sample
N/A	•	ICP-MS Interference Check Sample
N/A	•	ICP-MS Internal Standards
	•	Matrix Spikes
*	•	Laboratory Control Sample
	•	Laboratory Duplicate Samples
*	•	Field Duplicates
N/A	•	ICP Serial Dilutions
*	•	Performance Evaluation Samples/Accuracy Check
N/A	•	Analyte Quantitation and Reported Quantitation Limits

N/A – Not applicable
* – All criteria were met for this parameter.
Electronic Data Review Reports were not available for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Two single blind performance evaluation (PE) samples MS01746 (Total Cr), SRS1434 (Hexavalent Cr) were evaluated for this SDG. All analytes were scored "Within Limits". No action was required.

Data validation indicated some data quality problems. Total chromium results were qualified due to high matrix spike recovery, MS/MSD precision, and laboratory duplicate precision. See the attached worksheets for details. The results reported on the Data Summary Table are usable for the site objectives.

Sincerely,
TechLaw, Inc.

Leslie Downey
Data Validator

Louis Macri
ESAT Program Manager

Attachments: Data Summary Table
Data Validation Worksheets
Support Documentation
PE Score Results
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro and Mansfield, MA **SDG**: L1218098 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics and Misc.

Sample No.:	MHK_SED-01_0-.3		MHK_SED-02_0-.3		MHK_SED-03_0-.3		MHK_SED-04_0-.3		MHK_SED-05_0-.3		MHK_SED-06_0-.3		MHK_SED-07_0-.3		
Laboratory ID:	L1218098-01		L1218098-02		L1218098-03		L1218098-04		L1218098-05		L1218098-06		L1218098-07		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		
% Solids:	73		73		64		72		72		66		63		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	19	J[1, 2]	22	J[1, 2]	46	J[1, 2]	40	J[1, 2]	38	J[1, 2]	32	J[1, 2]	51	J[1, 2]	6010C
Total Organic Carbon	0.239 (%)		0.246 (%)		0.520 (%)		0.594 (%)		0.677 (%)		0.527 (%)		1.06 (%)		Lloyd Kahn
pH	N/A		N/A		N/A		N/A		N/A		6.2 (S.U.)		N/A		9045D
Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		1.2	U	N/A		7196A
ORP	N/A		N/A		N/A		N/A		N/A		94 (mv)		N/A		D1498

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

[1] Matrix spike duplicate recovery greater than upper limits, post-digestion spike within criteria, and MS/MSD precision outside criteria; estimate (J, UJ) all sediment results for chromium.

[2] Laboratory duplicate % Difference outside criteria; estimate (J, UJ) all sediment results for chromium.

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro and Mansfield, MA **SDG**: L1218098 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics and Misc.

Sample No.:	MHK_SED-08_0-.3		MHK_SED-09_0-.3		MHK_SED-10_0-.3		MHK_SED-11_0-.3		MHK_SED-12_0-.3		MHK_SED-13_0-.3		MHK_SED-14_0-.3		
Sample Location:	L1218098-08		L1218098-09		L1218098-10		L1218098-11		L1218098-12		L1218098-13		L1218098-14		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		Sediment/Low		
% Solids:	72		75		66		41		38		55		60		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	16	J[1, 2]	6.2	J[1, 2]	99	J[1, 2]	220	J[1, 2]	180	J[1, 2]	46	J[1, 2]	990	J[1, 2]	6010C
Total Organic Carbon	0.432 (%)		0.096 (%)		0.388 (%)		5.09 (%)		5.92 (%)		3.14 (%)		2.41 (%)		Lloyd Kahn
pH	N/A		N/A		N/A		N/A		N/A		5.2 (S.U.)		N/A		9045D
Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		1.4	U	N/A		7196A
ORP	N/A		N/A		N/A		N/A		N/A		110 (mv)		N/A		D1498

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

[1] Matrix spike duplicate recovery greater than upper limits, post-digestion spike within criteria, and MS/MSD precision outside criteria; estimate (J, UJ) all sediment results for chromium.

[2] Laboratory duplicate % Difference outside criteria; estimate (J, UJ) all sediment results for chromium.

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro and Mansfield, MA **SDG**: L1218098 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics and Misc.

Sample No.:	MHK_SED-15_0-.3		MHK_SED-16_0-.3		OW-311		EQUIP BLANK								
Sample Location:	L1218098-15		L1218098-16		L1218098-17		L1218098-18								
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Blank								
Matrix/Level:	Sediment/Low		Sediment/Low		Sediment/Low		Water/Low								
% Solids:	76		68		60		N/A								
Dilution Factor:	1		1		1		1								
Units:	mg/kg (dry weight)		mg/kg (dry weight)		mg/kg (dry weight)		mg/L								
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**							**Method**
Chromium	14	J[1, 2]	18	J[1, 2]	62	J[1, 2]	0.010	U							6010C
Total Organic Carbon	2.82 (%)		0.849 (%)		2.88 (%)		N/A								Lloyd Kahn
pH	N/A		6.3 (S.U.)		5.2 (S.U.)		N/A								9045D
Hexavalent Chromium	N/A		1.2	U	1.3	U	0.010	U							7196A
ORP	N/A		84 (mv)		94 (mv)		N/A								D1498

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

[1] Matrix spike duplicate recovery greater than upper limits, post-digestion spike within criteria, and MS/MSD precision outside criteria; estimate (J, UJ) all sediment results for chromium.

[2] Laboratory duplicate % Difference outside criteria; estimate (J, UJ) all sediment results for chromium.

ANALYTICAL REPORT

Lab Number:	L1218098
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/17/12

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1218098-01	MHK_SED-01_0-.3	NASHUA, NH	10/08/12 10:44
L1218098-02	MHK_SED-02_0-.3	NASHUA, NH	10/08/12 10:59
L1218098-03	MHK_SED-03_0-.3	NASHUA, NH	10/08/12 11:14
L1218098-04	MHK_SED-04_0-.3	NASHUA, NH	10/08/12 11:29
L1218098-05	MHK_SED-05_0-.3	NASHUA, NH	10/08/12 11:44
L1218098-06	MHK_SED-06_0-.3	NASHUA, NH	10/09/12 11:10
L1218098-07	MHK_SED-07_0-.3	NASHUA, NH	10/08/12 12:07
L1218098-08	MHK_SED-08_0-.3	NASHUA, NH	10/08/12 12:24
L1218098-09	MHK_SED-09_0-.3	NASHUA, NH	10/08/12 14:44
L1218098-10	MHK_SED-10_0-.3	NASHUA, NH	10/08/12 14:30
L1218098-11	MHK_SED-11_0-.3	NASHUA, NH	10/08/12 15:14
L1218098-12	MHK_SED-12_0-.3	NASHUA, NH	10/08/12 15:00
L1218098-13	MHK_SED-13_0-.3	NASHUA, NH	10/09/12 10:39
L1218098-14	MHK_SED-14_0-.3	NASHUA, NH	10/08/12 14:10
L1218098-15	MHK_SED-15_0-.3	NASHUA, NH	10/08/12 13:54
L1218098-16	MHK_SED-16_0-.3	NASHUA, NH	10/09/12 09:23
L1218098-17	OW-311	NASHUA, NH	10/09/12 10:39
L1218098-18	EQUIP BLANK	NASHUA, NH	10/09/12 11:50
L1218098-19	MS01746	NASHUA, NH	10/09/12 12:20
L1218098-20	SRS1434	NASHUA, NH	10/09/12 12:20

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) for Hexavalent Chromium in Soil have been quantitated to the limit noted in the MDL column. All other analyses have been quantitated to the limit noted in the RL column.

Metals

L1218098-10 has an elevated detection limits due to the dilution required by the sample matrix.

The WG566222-4 MSD recovery, performed on L1218098-06, is outside the acceptance criteria for Chromium (262%). A post digestion spike was performed with an acceptable recovery of 86%.

The WG566222-3/-4 MS/MSD RPD, performed on L1218098-06, is above the acceptance criteria for Chromium (51%).

The WG567052-4 MS recovery for Chromium (445%), performed on L1218098-10, does not apply because the sample concentration is greater than four times the spike amount added.

The WG567052-3 Laboratory Duplicate RPD, performed on L1218098-10, is outside the acceptance criteria for Chromium (114%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative

Date: 10/17/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-01	Date Collected:	10/08/12 10:44
Client ID:	MHK_SED-01_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	73%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	19		mg/kg	0.52	0.10	1	10/10/12 14:55	10/11/12 19:22	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-02	Date Collected:	10/08/12 10:59
Client ID:	MHK_SED-02_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	73%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	22		mg/kg	0.54	0.11	1	10/10/12 14:55	10/11/12 19:25	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-03	Date Collected:	10/08/12 11:14
Client ID:	MHK_SED-03_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	64%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	46		mg/kg	0.58	0.12	1	10/10/12 14:55	10/11/12 19:28	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-04	Date Collected:	10/08/12 11:29
Client ID:	MHK_SED-04_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	40		mg/kg	0.52	0.10	1	10/10/12 14:55	10/11/12 19:38	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-05	Date Collected:	10/08/12 11:44
Client ID:	MHK_SED-05_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	38		mg/kg	0.54	0.11	1	10/10/12 14:55	10/11/12 19:41	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-06	Date Collected:	10/09/12 11:10
Client ID:	MHK_SED-06_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	66%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	32		mg/kg	0.58	0.12	1	10/10/12 14:55	10/11/12 19:12	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218098

Project Number: 2158.01 **Report Date:** 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-07 Date Collected: 10/08/12 12:07

Client ID: MHK_SED-07_0-.3 Date Received: 10/09/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	51		mg/kg	0.61	0.12	1	10/10/12 14:55	10/11/12 19:43	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-08	Date Collected:	10/08/12 12:24
Client ID:	MHK_SED-08_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	16		mg/kg	0.53	0.10	1	10/10/12 14:55	10/11/12 19:46	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-09	Date Collected:	10/08/12 14:44
Client ID:	MHK_SED-09_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	6.2		mg/kg	0.51	0.10	1	10/10/12 14:55	10/11/12 19:49	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-10	Date Collected:	10/08/12 14:30
Client ID:	MHK_SED-10_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	66%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	99		mg/kg	1.2	0.23	2	10/15/12 11:04	10/15/12 20:49	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218098

Project Number: 2158.01 **Report Date:** 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-11 Date Collected: 10/08/12 15:14

Client ID: MHK_SED-11_0-.3 Date Received: 10/09/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	220		mg/kg	0.93	0.19	1	10/15/12 11:04	10/15/12 21:21	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-12	Date Collected:	10/08/12 15:00
Client ID:	MHK_SED-12_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	38%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	180		mg/kg	1.0	0.20	1	10/15/12 11:04	10/15/12 21:23	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-13	Date Collected:	10/09/12 10:39
Client ID:	MHK_SED-13_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	55%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	46		mg/kg	0.70	0.14	1	10/15/12 11:04	10/15/12 21:26	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-14	Date Collected:	10/08/12 14:10
Client ID:	MHK_SED-14_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	60%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	990		mg/kg	0.63	0.13	1	10/15/12 11:04	10/15/12 21:29	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-15	Date Collected:	10/08/12 13:54
Client ID:	MHK_SED-15_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	14		mg/kg	0.50	0.10	1	10/15/12 11:04	10/15/12 21:48	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-16	Date Collected:	10/09/12 09:23
Client ID:	MHK_SED-16_0-.3	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	68%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	18		mg/kg	0.56	0.11	1	10/15/12 11:04	10/15/12 21:50	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218098

Project Number: 2158.01 **Report Date:** 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-17 Date Collected: 10/09/12 10:39

Client ID: OW-311 Date Received: 10/09/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	62		mg/kg	0.64	0.13	1	10/15/12 11:04	10/15/12 21:53	EPA 3050B	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-18	Date Collected:	10/09/12 11:50
Client ID:	EQUIP BLANK	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	0.002	1	10/10/12 11:42	10/12/12 00:11	EPA 3005A	1,6010C	KL

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

SAMPLE RESULTS

Lab ID:	L1218098-19	Date Collected:	10/09/12 12:20
Client ID:	MS01746	Date Received:	10/09/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	Results are reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	9.1		mg/kg	0.40	0.08	1	10/15/12 11:04	10/15/12 21:56	EPA 3050B	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218098

Project Number: 2158.01 **Report Date:** 10/17/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 18 Batch: WG566151-1										
Chromium, Total	ND		mg/l	0.01	0.002	1	10/10/12 11:42	10/11/12 23:50	1,6010C	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-09 Batch: WG566222-1										
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/10/12 14:55	10/11/12 19:06	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 10-17,19 Batch: WG567052-1										
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/15/12 11:04	10/15/12 20:43	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218098

Report Date: 10/17/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 18 Batch: WG566151-2								
Chromium, Total	100		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-09 Batch: WG566222-2								
Chromium, Total	94		-		75-125	-		
Total Metals - Westborough Lab Associated sample(s): 10-17,19 Batch: WG567052-2								
Chromium, Total	93		-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218098
Report Date: 10/17/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 18 QC Batch ID: WG566151-4 QC Sample: L1217837-26 Client ID: MS Sample												
Chromium, Total	ND	0.2	0.20	100		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG566222-3 WG566222-4 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3												
Chromium, Total	32.	23.4	55	98		93	**262**	Q	75-125	**51**	Q	35
Total Metals - Westborough Lab Associated sample(s): 10-17,19 QC Batch ID: WG567052-4 QC Sample: L1218098-10 Client ID: MHK_SED-10_0-.3												
Chromium, Total	99.	22.7	200	**445**	Q	-	-		75-125	-		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 18 QC Batch ID: WG566151-3 QC Sample: L1217837-26 Client ID: DUP Sample						
Chromium, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 10-17,19 QC Batch ID: WG567052-3 QC Sample: L1218098-10 Client ID: MHK_SED-10_0-.3						
Chromium, Total	99.	360	mg/kg	**114**	Q	35

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-01
Client ID: MHK_SED-01_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 10:44
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.239		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	73		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-02
Client ID: MHK_SED-02_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 10:59
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.246		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	73		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-03
Client ID: MHK_SED-03_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 11:14
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.520		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	64		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-04
Client ID: MHK_SED-04_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 11:29
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.594		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	72		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-05
Client ID: MHK_SED-05_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 11:44
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.677		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	72		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-06
Client ID: MHK_SED-06_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/09/12 11:10
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.527		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	66		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD
pH	6.2		SU	-	NA	1	-	10/09/12 22:00	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.2	0.27	1	10/14/12 16:30	10/15/12 23:57	1,7196A	JT
Oxidation/Reduction Potential	94		mv	-	NA	1	-	10/09/12 23:16	68,1498	EL

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-07
Client ID: MHK_SED-07_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 12:07
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	1.06		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	63		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-08
Client ID: MHK_SED-08_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 12:24
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.432		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	72		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-09
Client ID: MHK_SED-09_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 14:44
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.096		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	75		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-10
Client ID: MHK_SED-10_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 14:30
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.388		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	66		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-11
Client ID: MHK_SED-11_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 15:14
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	5.09		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	41		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-12
Client ID: MHK_SED-12_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 15:00
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	5.92		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	38		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-13
Client ID: MHK_SED-13_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/09/12 10:39
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	3.14		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	55		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD
pH	5.2		SU	-	NA	1	-	10/09/12 22:00	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.4	0.33	1	10/14/12 16:30	10/15/12 23:58	1,7196A	JT
Oxidation/Reduction Potential	110		mv	-	NA	1	-	10/09/12 23:16	68,1498	EL

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-14
Client ID: MHK_SED-14_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 14:10
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	2.41		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	60		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-15
Client ID: MHK_SED-15_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/08/12 13:54
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	2.82		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	76		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-16
Client ID: MHK_SED-16_0-.3
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/09/12 09:23
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	0.849		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	68		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD
pH	6.3		SU	-	NA	1	-	10/09/12 22:00	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.2	0.26	1	10/14/12 16:30	10/15/12 23:58	1,7196A	JT
Oxidation/Reduction Potential	84		mv	-	NA	1	-	10/09/12 23:16	68,1498	EL

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-17
Client ID: OW-311
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/09/12 10:39
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	2.88		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab										
Solids, Total	60		%	0.10	NA	1	-	10/10/12 00:40	30,2540G	RD
pH	5.2		SU	-	NA	1	-	10/09/12 22:00	1,9045C	EL
Chromium, Hexavalent	ND		mg/kg	1.3	0.30	1	10/14/12 16:30	10/15/12 23:59	1,7196A	JT
Oxidation/Reduction Potential	94		mv	-	NA	1	-	10/09/12 23:16	68,1498	EL

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-18
Client ID: EQUIP BLANK
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/09/12 11:50
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	10/09/12 21:00	10/09/12 21:36	30,3500CR-D	EL

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

SAMPLE RESULTS

Lab ID: L1218098-20
Client ID: SRS1434
Sample Location: NASHUA, NH
Matrix: Sediment

Date Collected: 10/09/12 12:20
Date Received: 10/09/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	0.81		mg/kg	0.80	0.18	1	10/14/12 16:30	10/16/12 00:00	1,7196A	JT

Project Name: MOHAWK TANNERY SOUTHERN PAR
Project Number: 2158.01
Lab Number: L1218098
Report Date: 10/17/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG566013-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	10/09/12 21:00	10/09/12 21:34	30,3500CR-D	EL
Total Organic Carbon - Mansfield Lab for sample(s): 01-17 Batch: WG566735-1										
Total Organic Carbon	ND		%	0.010	0.010	1	-	10/16/12 04:30	13,-	NR
General Chemistry - Westborough Lab for sample(s): 06,13,16-17,20 Batch: WG566959-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.18	1	10/14/12 16:30	10/15/12 23:55	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218098

Report Date: 10/17/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG566013-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17 Batch: WG566023-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17 Batch: WG566027-1								
Oxidation/Reduction Potential	102		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17,20 Batch: WG566959-2								
Chromium, Hexavalent	97		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218098
Report Date: 10/17/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG566013-4 QC Sample: L1218098-18 Client ID: EQUIP BLANK												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG566735-4 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3												
Total Organic Carbon	0.527	1.56	2.08	99		-	-		75-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17,20 QC Batch ID: WG566959-4 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3												
Chromium, Hexavalent	ND	1690	1400	83		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG566013-3 QC Sample: L1218098-18 Client ID: EQUIP BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17 QC Batch ID: WG566023-2 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3						
pH	6.2	6.1	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17 QC Batch ID: WG566027-2 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3						
Oxidation/Reduction Potential	94.	110	mv	16		20
General Chemistry - Westborough Lab Associated sample(s): 01-17 QC Batch ID: WG566050-1 QC Sample: L1218098-01 Client ID: MHK_SED-01_0-.3						
Solids, Total	73.	73	%	0		20
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG566735-3 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3						
Total Organic Carbon	0.527	0.537	%	2		25
General Chemistry - Westborough Lab Associated sample(s): 06,13,16-17,20 QC Batch ID: WG566959-3 QC Sample: L1218098-06 Client ID: MHK_SED-06_0-.3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: MOHAWK TANNERY SOUTHERN PARCE **Lab Number:** L1218098

Project Number: 2158.01 **Report Date:** 10/17/12

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG566735-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon	113		75-125

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218098
Project Number: 2158.01 **Report Date:** 10/17/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218098-01A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-01M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-02A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-02M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-03A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-03M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-04A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-04M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-05A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-05M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-06A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	ORP-9045(1),CR-TI(180),TS(7),PH-9045(1)
L1218098-06H	Amber 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-06M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	HEXCR-7196(30)
L1218098-07A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-07M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-08A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-08M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-09A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-09M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-10A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-10M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-11A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-11M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-12A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-12M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-13A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	ORP-9045(1),CR-TI(180),TS(7),PH-9045(1)

*Values in parentheses indicate holding time in days

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218098
Report Date: 10/17/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218098-13H	Amber 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-13M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	HEXCR-7196(30)
L1218098-14A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-14M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-15A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180),TS(7)
L1218098-15M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-16A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	ORP-9045(1),CR-TI(180),TS(7),PH-9045(1)
L1218098-16H	Amber 100ml unpreserved	A	N/A	3.2	Y	Absent	HEXCR-7196(30)
L1218098-16M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-17A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	ORP-9045(1),CR-TI(180),TS(7),PH-9045(1)
L1218098-17H	Amber 100ml unpreserved	A	N/A	3.2	Y	Absent	HEXCR-7196(30)
L1218098-17M	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	A2-TOC-LK(14)
L1218098-18A	Plastic 500ml HNO3 preserved	A	<2	3.2	Y	Absent	CR-TI(180)
L1218098-18B	Plastic 500ml unpreserved	A	7	3.2	Y	Absent	HEXCR-3500(1)
L1218098-19A	Other container unpreserved	A	N/A	3.2	Y	Absent	CR-TI(180)
L1218098-20A	Other container unpreserved	A	N/A	3.2	Y	Absent	HEXCR-7196(30)

Container Comments

L1218098-06M

L1218098-13M

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218098
Project Number:	2158.01	**Report Date:**	10/17/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

13 Determination of Total Organic Carbon in Sediment. U.S. EPA, Region II. July 27, 1988.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

68 Annual Book of ASTM (American Society for Testing and Materials) Standards following extraction by SW-846 EPA Method 9045C under the requirements of MADEP BWSC, WSC-CAM-VIB. August 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15, TO-10A.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Non-Potable Water (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D .)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via NJ-DEP.***

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

Serial_No:10171215:57

CHAIN OF CUSTODY

Date Rec'd in Lab: 10/9/12

ALPHA Job #: L1218098

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Project Information
Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Report Information - Data Deliverables
☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information
☒ Same as Client info PO #: 2158.01

Client Information
Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Turn-Around Time
☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-311 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	TOC by Lloyd Kahn	Eh, pH by 9045	Hexavalent Chromium by 7196A	Sample Specific Comments	TOTAL # BOTTLES
18098.1	MHK_SED-01_0-.3	10/08/12	10:44	SE		X	X				2
2	MHK_SED-02_0-.3	10/08/12	10:59	SE		X	X				2
3	MHK_SED-03_0-.3	10/08/12	11:14	SE		X	X				2
4	MHK_SED-04_0-.3	10/08/12	11:29	SE		X	X				2
5	MHK_SED-05_0-.3	10/08/12	11:44	SE		X	X				2
6	MHK_SED-06_0-.3	10/09/12	11:10	SE		X	X	X	X		3
7	MHK_SED-07_0-.3	10/08/12	12:07	SE		X	X				2
8	MHK_SED-08_0-.3	10/08/12	12:24	SE		X	X				2
9	MHK_SED-09_0-.3	10/08/12	14:44	SE		X	X				2
10	MHK_SED-10_0-.3	10/08/12	14:30	SE		X	X				2
				Container Type		G	G	G	G		
				Preservative		A	A	A	A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/9/12 12:50	[illegible]	10/9/12 13:[illegible]
[illegible]	10/9/12 1620	[illegible]	10/9/12 1630

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:10171215:57

CHAIN OF CUSTODY

Date Rec'd in Lab: 10/9/12

ALPHA Job #: L1218098

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-311 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium by 6010C	TOC by Lloyd Kahn	Eh, pH by 9045	Hexavalent Chromium by 7196A	Total Chromium by 6010C	Hex. Chromium by SM3500Cr-D	Sample Specific Comments	TOTAL # BOTTLES
18098.11	MHK_SED-11_0-.3	10/08/12	15:14	SE		X	X						2
.12	MHK_SED-12_0-.3	10/08/12	15:00	SE		X	X						2
.13	MHK_SED-13_0-.3	10/09/12	10:39	SE		X	X	X	X				3
.14	MHK_SED-14_0-.3	10/08/12	14:10	SE		X	X						2
.15	MHK_SED-15_0-.3	10/08/12	13:54	SE		X	X						2
.16	MHK_SED-16_0-.3	10/09/12	9:23	SE		X	X	X	X				3
.17	OW-311	10/09/12	10:39	SE		X	X	X	X				3
.18	EQUIP BLANK	10/09/12	11:50	AQ						X	X		2
.19	MS01746	10/09/12	12:20	SE		X							1
.20	SRS1434	10/09/12	12:20	SE					X				1
					Container Type	G	G	G	G	P	P		
					Preservative	A	A	A	A	C	A		

Relinquished By:	Date/Time	Received By:	Date/Time
Kelly M Nelson	10/9/12 12:50	Leo Lapoie	10/9/12 12:50
Leo Lapoie	10/9/12 1630	[illegible]	10/9/12 1630

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

QATS LABORATORY INSTRUCTIONS FOR HEXAVALENT CHROMIUM IN SOIL PERFORMANCE EVALUATION SAMPLES

THESE INSTRUCTIONS ARE APPLICABLE TO QATS
PES CATALOG NUMBER "SR-PES HVCS" ONLY

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with EPA methods for the analysis of hexavalent chromium soil samples.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Hexavalent Chromium

Material Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Hexavalent Chromium in Soil Performance Evaluation Samples (PESs) for analysis. This set consists of one (1) or more bottles, each containing approximately 50 grams of soil for hexavalent chromium analysis. Check the chain-of-custody record to determine the number of bottles provided for hexavalent chromium analysis. The bottle(s) should not be opened until sample preparation/analysis is to occur.

CAUTION: Store the sample(s) at 4° C ± 2° C until sample preparation/analysis is to occur. Allow sample(s) to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples are to be analyzed as described in the appropriate method or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the appropriate method or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Allow bottle(s) to reach ambient temperature before opening to remove soil for sample preparation.

Instructions for Hexavalent Chromium Soil Preparation and Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

For analysis, break the seal on the PES sample bottle and measure the prescribed amount of soil as specified in the appropriate method. The sample is ready for processing and analysis. Continue with processing and analysis as described in the appropriate method or your contract.

(E) *REPORTING*

Report the results for the full-volume sample(s) as received.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

Instructions for QATS Catalog Numbers:

90-005	**94-020**	**94-021**
94-022	**94-023**	**94-024**
95-009	**95-017-S**	**99-005**

Metals in Soil

QATS LABORATORY INSTRUCTIONS FOR LOW/MEDIUM CONCENTRATION METALS IN SOIL PERFORMANCE EVALUATION SAMPLES

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals and Heavy Metals
HAZARDOUS MATERIAL

Material Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Metals in Soil Performance Evaluation Samples (PESs). This set consists of one (1) or more bottles, each containing approximately 30 grams of homogeneous soil. Check the chain-of-custody record for descriptions and number of bottles of soil provided for metals analysis. The bottle(s) should not be opened until sample preparation or analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. The sample does not require refrigeration upon receipt. If the sample is refrigerated, allow it to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples generated from these bottle(s) are to be analyzed as described in the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) *GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Allow the sample to reach ambient temperature and mix by repeated inversions before opening to remove an aliquot for processing and analysis. When calculating the concentrations of the analytes, use 0% as the soil moisture content.

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

Instructions for Metals in Soil Analysis

Break the seal on the bottle and open carefully. To begin the analysis for metals other than mercury, weigh out an amount of the bottle contents appropriate for your analytical protocol and record the exact weight to the nearest 0.01 g. Continue with sample preparation and analysis as described in the SOW, other appropriate method, or your contract.

Instructions for Mercury in Soil Analysis

If analysis for mercury is required, weigh out an amount of the bottle contents appropriate for your analytical protocol and record the exact weight to the nearest 0.01 g. Continue with sample preparation and analysis as described in the SOW, other appropriate method, or your contract.

(E) *REPORTING*

Report the results of the original PES material, as received, in mg/Kg.

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.

CHAIN OF CUSTODY

PAGE: 1 OF 2

Date Rec'd in Lab: 10/9/12

ALPHA Job #: L1218098

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Serial_No:10171215:57

Client Information

Client: Sanborn, Head & Associates, Inc.

Address: 20 Foundry Street

Concord, NH 03301

Phone: 603-229-1900

Fax: 603-229-1919

Email: kdubois@sanbornhead.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel

Project Location: Nashua, NH

Project #: 2158.01

Project Manager: T. White/K. Dubois

ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-311 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~Total Chromium by 6010C~~	TOC by Lloyd Kahn	~~Eh, pH by 9045~~	~~Hexavalent Chromium by 7196A~~									Sample Specific Comments	TOTAL # BOTTLES
18098.1	MHK_SED-01_0-.3	10/08/12	10:44	SE		X	X												2
2	MHK_SED-02_0-.3	10/08/12	10:59	SE		X	X												2
3	MHK_SED-03_0-.3	10/08/12	11:14	SE		X	X												2
4	MHK_SED-04_0-.3	10/08/12	11:29	SE		X	X												2
5	MHK_SED-05_0-.3	10/08/12	11:44	SE		X	X												2
6	MHK_SED-06_0-.3	10/09/12	11:10	SE		X	X	X	X										3
7	MHK_SED-07_0-.3	10/08/12	12:07	SE		X	X												2
8	MHK_SED-08_0-.3	10/08/12	12:24	SE		X	X												2
9	MHK_SED-09_0-.3	10/08/12	14:44	SE		X	X												2
10	MHK_SED-10_0-.3	10/08/12	14:30	SE		X	X												2
					Container Type	G	G	G	G										
					Preservative	A	A	A	A										

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/9/12 12:50	[illegible]	10/9/12 13:[illegible]
[illegible]	10/9/12 1630	[illegible]	10/9/12 1630
[illegible]	10/9/12 2055	[illegible]	10/9/12 [illegible]
Pat Allen	10/10/12 830	[illegible]	10/10/12 0830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

CHAIN OF CUSTODY

PAGE: 2 OF 2

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Serial_No 101712 15:57

Date Rec'd in Lab: 10/9/12

ALPHA Job #: L1218098

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

Standard Rush (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-311 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~Total Chromium by 6010C~~	TOC by Lloyd Kahn	~~Eh, pH by 9045~~	~~Hexavalent Chromium by 7196A~~	~~Total Chromium by 6010C~~	~~Hex. Chromium by SM3500CF-D~~	Sample Specific Comments	TOTAL # BOTTLES
8098.11	MHK_SED-11_0-.3	10/08/12	15:14	SE		X	X						2
.12	MHK_SED-12_0-.3	10/08/12	15:00	SE		X	X						2
.13	MHK_SED-13_0-.3	10/09/12	10:39	SE		X	X	X	X				3
.14	MHK_SED-14_0-.3	10/08/12	14:10	SE		X	X						2
.15	MHK_SED-15_0-.3	10/08/12	13:54	SE		X	X						2
.16	MHK_SED-16_0-.3	10/09/12	9:23	SE		X	X	X	X				3
.17	OW-311	10/09/12	10:39	SE		X	X	X	X				3
.18	EQUIP BLANK	10/09/12	11:50	AQ						X	X		2
.19	MS01746	10/09/12	12:20	SE		X							1
.20	SRS1434	10/09/12	12:20	SE					X				1
					Container Type	G	G	G	G	P	P		
					Preservative	A	A	A	A	C	A		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/9/12 12:50	[illegible]	10/9/12 12[illegible]
[illegible]	10/9/12 1630	[illegible]	10/9/12 1630
[illegible]	10/9/12 2055	[illegible]	10/10/12 7[illegible]
[illegible]	10/10/12 83[illegible]	[illegible]	10/10/12 0830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

US EPA Approval Signature

1-28-13
Date

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square, Suite 100
Boston, MA 02109

January 29, 2013

Re: TO No. 85, Task No. 1, TDF No. 2843
Case No. 2158.01, SDG No. L1218701, L1218704, L1218707, L1218885, L1218886
Alpha Analytical, Westboro, MA
Mohawk Tannery Southern Parcel, Nashua NH
Stage_2A_Validation_Manual (S2AVM)

Total and Dissolved Chromium and Hexavalent Chromium:

23/Groundwater/ MHK_GZ-10, MHK_GZ-11, MHK_GZ-13, MHK_GZ-14, MHK_SH-13, MHK_SH-19, OW-321, MHK_PZ-01, MHK_PZ-02, MHK_PZ-03, MHK_PZ-04, MHK_PZ-05, MHK_PZ-06, MHK_PZ-07, MHK_PZ-08, MHK_PZ-09, MHK_PZ-10, MHK_PZ-11, MHK_PZ-12, MHK_PZ-13, MHK_PZ-14, MHK_PZ-15, OW-331
(Field duplicate pairs: MHK_GZ-10/OW-321, MHK_PZ-14/OW-331)

3/Surface Water/ MHK_SW-01, MHK_SW-02, OW-341
(Field duplicate pair: MHK_SW-02/OW-341)

2/Equipment Blank/ EQUIP BLANK

4/PE/ IS0680, IS0709, SRS1472, SRS1473

Dear Mr. Millan-Ramos:

A stage 2A manual validation was performed on the inorganic analytical data for 26 aqueous samples, two equipment blanks, and four performance evaluation samples collected by Sanborn, Head & Associates, Inc. for the U.S. EPA at the Mohawk Tannery Southern Parcel Site in Nashua, NH. The samples were analyzed according to USEPA SW-846 method 6010C for ICP-AES and Standard Methods 3500CR-D for Hexavalent Chromium. The samples were validated using first the criteria in the specified methods; and the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012, which references the laboratory SOPs; then the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, January 2010; defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996, Part IV Inorganic Data Validation Functional Guidelines, November 2008 procedures; and finally to EPA Region I's Environmental Services Assistance Team Inorganic Data Validation SOP ESAT-01-0081 (03/30/07).

The data were evaluated based on the following parameters:

N/A	•	Data Completeness
*	•	Preservation and Technical Holding Times
N/A	•	ICP-MS Tune
N/A	•	Calibrations
*	•	Blanks
N/A	•	ICP-AES Interference Check Sample
N/A	•	ICP-MS Interference Check Sample
N/A	•	ICP-MS Internal Standards
*	•	Matrix Spikes
*	•	Laboratory Control Sample
*	•	Laboratory Duplicate Samples
*	•	Field Duplicates
N/A	•	ICP Serial Dilutions
	•	Performance Evaluation Samples/Accuracy Check
N/A	•	Analyte Quantitation and Reported Quantitation Limits

N/A – Not applicable
* – All criteria were met for this parameter.
Electronic Data Review Reports were not available for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Four single blind performance evaluation (PE) samples IS0680 (Total Cr), SRS1472 (Hexavalent Cr), IS0709 (Total Cr), and SRS1473 (Hexavalent Cr) were evaluated for this SDG. All analytes were scored "Within Limits", except for IS0709 (Total Cr), which was scored "Action High". The positive detect for sample MHK_SW-01 was estimated (J).

Data validation did not indicate any other data quality problems. The results reported on the Data Summary Table are usable for the site objectives.

Sincerely,
TechLaw, Inc.

Leslie Downey
Data Validator

Louis Macri
ESAT Program Manager

Attachments: Data Summary Table
Data Validation Worksheets
Support Documentation
PE Score Results
Field Notes

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro **SDG**: L1218701, L1218704, L1218707, L1218885, L1218886 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics

Sample No.:	MHK_GZ-10		MHK_GZ-13		MHK_GZ-14		MHK_SH-19		OW-321		EQUIP BLANK		MHK_GZ-11		
Laboratory ID:	L1218701-01		L1218701-02		L1218701-03		L1218701-04		L1218701-05		L1218701-06		L1218886-01		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		Field_Blank		Field_Sample		
Matrix/Level:	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Water		Groundwater		
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	6010C
Hexavalent Chromium	0.010	U	N/A		N/A		N/A		0.010	U	0.010	U	N/A		3500CR-D
Dissolved Chromium	N/A		N/A		N/A		0.01	U	N/A		N/A		N/A		6010C
Dissolved Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3500CR-D

Sample No.:	MHK_SH-13		MHK_PZ-01		MHK_PZ-02		MHK_PZ-03		MHK_PZ-04		MHK_PZ-06		MHK_PZ-14		
Laboratory ID:	L1218886-02		L1218704-01		L1218704-02		L1218704-03		L1218704-04		L1218704-05		L1218704-06		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	0.03		N/A		N/A		N/A		N/A		N/A		N/A		6010C
Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3500CR-D
Dissolved Chromium	N/A		0.01	U	0.01	U	0.01	U	0.02		0.01	U	0.01	U	6010C
Dissolved Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		0.01	U	0.01	U	3500CR-D

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

[1] - Performace Evaluation (PE) sample scored "Action High"; Estimate (J) positive detect for chromium in sample MHK_SW-01.

ESAT Generated Data Summary Table - Validated Results

Lab: Alpha Analytical - Westboro **SDG**: L1218701, L1218704, L1218707, L1218885, L1218886 **Case**: 2158.01 **SOW**: N/A **Analysis**: Inorganics

Sample No.:	OW-331		EQUIP BLANK		MHK_PZ-05		MHK_PZ-07		MHK_PZ-08		MHK_PZ-09		MHK_PZ-10		
Laboratory ID:	L1218704-07		L1218704-08		L1218885-01		L1218885-02		L1218885-03		L1218885-04		L1218885-05		
Sample Type:	Field_Duplicate		Field_Blank		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		
Matrix/Level:	Groundwater		Water		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	N/A		0.01	U	N/A		N/A		N/A		N/A		N/A		6010C
Hexavalent Chromium	N/A		0.010	U	N/A		N/A		N/A		N/A		N/A		3500CR-D
Dissolved Chromium	0.01	U	N/A		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	6010C
Dissolved Hexavalent Chromium	0.01	U	N/A		N/A		N/A		N/A		N/A		N/A		3500CR-D

Sample No.:	MHK_PZ-11		MHK_PZ-12		MHK_PZ-13		MHK_PZ-15		MHK_SW-01		MHK_SW-02		OW-341		
Laboratory ID:	L1218885-06		L1218885-07		L1218885-08		L1218885-09		L1218707-01		L1218707-02		L1218707-03		
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		
Matrix/Level:	Groundwater		Groundwater		Groundwater		Groundwater		Surface Water		Surface Water		Surface Water		
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		
Dilution Factor:	1		1		1		1		1		1		1		
Units:	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Method**
Chromium	N/A		N/A		N/A		N/A		0.02	J[1]	0.01	U	0.01	U	6010C
Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		0.010	U	0.010	U	3500CR-D
Dissolved Chromium	0.01		0.01	U	0.01	U	0.01	U	N/A		N/A		N/A		6010C
Dissolved Hexavalent Chromium	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3500CR-D

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

[1] - Performace Evaluation (PE) sample scored "Action High"; Estimate (J) positive detect for chromium in sample MHK_SW-01.

ANALYTICAL REPORT

Lab Number:	L1218701
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/24/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1218701-01	MHK_GZ-10	NASHUA, NH	10/17/12 10:26
L1218701-02	MHK_GZ-13	NASHUA, NH	10/16/12 14:51
L1218701-03	MHK_GZ-14	NASHUA, NH	10/16/12 11:20
L1218701-04	MHK_SH-19	NASHUA, NH	10/16/12 17:38
L1218701-05	OW-321	NASHUA, NH	10/17/12 10:26
L1218701-06	EQUIP BLANK	NASHUA, NH	10/17/12 14:44
L1218701-07	SRS1472	NASHUA, NH	10/17/12 12:15
L1218701-08	IS0680	NASHUA, NH	10/17/12 12:15

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

Case Narrative (continued)

Sample Receipt

The samples were field filtered for Dissolved Metals.

Chromium, Hexavalent

WG567789: A Laboratory Duplicate was prepared on sample L1218701-07 (not on L1218704-06, as per client request); re-analysis is not possible due to expired holding time.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative

Date: 10/24/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

SAMPLE RESULTS

Lab ID:	L1218701-01	Date Collected:	10/17/12 10:26
Client ID:	MHK_GZ-10	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 19:43	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

SAMPLE RESULTS

Lab ID:	L1218701-02	Date Collected:	10/16/12 14:51
Client ID:	MHK_GZ-13	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:04	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

SAMPLE RESULTS

Lab ID:	L1218701-03	Date Collected:	10/16/12 11:20
Client ID:	MHK_GZ-14	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:07	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

SAMPLE RESULTS

Lab ID:	L1218701-04	Date Collected:	10/16/12 17:38
Client ID:	MHK_SH-19	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:10	EPA 3005A	1,6010C	BM
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:48	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

SAMPLE RESULTS

Lab ID:	L1218701-05	Date Collected:	10/17/12 10:26
Client ID:	OW-321	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:13	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

SAMPLE RESULTS

Lab ID:	L1218701-06	Date Collected:	10/17/12 14:44
Client ID:	EQUIP BLANK	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:16	EPA 3005A	1,6010C	BM

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218701

Project Number: 2158.01 **Report Date:** 10/24/12

SAMPLE RESULTS

Lab ID: L1218701-08 Date Collected: 10/17/12 12:15

Client ID: IS0680 Date Received: 10/17/12

Sample Location: NASHUA, NH Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.09		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:22	EPA 3005A	1,6010C	BM

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218701

Project Number: 2158.01 **Report Date:** 10/24/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06,08 Batch: WG568179-1										
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 19:37	1,6010C	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 04 Batch: WG568911-1										
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:42	1,6010C	BM

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218701

Report Date: 10/24/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06,08 Batch: WG568179-2								
Chromium, Total	105		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 04 Batch: WG568911-2								
Chromium, Dissolved	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218701
Report Date: 10/24/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06,08 QC Batch ID: WG568179-4 QC Sample: L1218701-01 Client ID: MHK_GZ-10												
Chromium, Total	ND	0.2	0.21	105		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG568911-4 QC Sample: L1218701-04 Client ID: MHK_SH-19												
Chromium, Dissolved	ND	0.2	0.20	100		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06,08 QC Batch ID: WG568179-3 QC Sample: L1218701-01 Client ID: MHK_GZ-10						
Chromium, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG568911-3 QC Sample: L1218701-04 Client ID: MHK_SH-19						
Chromium, Dissolved	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

SAMPLE RESULTS

Lab ID: L1218701-01
Client ID: MHK_GZ-10
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 10:26
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:38	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

SAMPLE RESULTS

Lab ID: L1218701-05
Client ID: OW-321
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 10:26
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:38	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

SAMPLE RESULTS

Lab ID: L1218701-06
Client ID: EQUIP BLANK
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 14:44
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:39	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

SAMPLE RESULTS

Lab ID: L1218701-07
Client ID: SRS1472
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 12:15
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	0.010		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:39	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PAR
Project Number: 2158.01
Lab Number: L1218701
Report Date: 10/24/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,05-07 Batch: WG567789-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:38	30,3500CR-D	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218701

Report Date: 10/24/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,05-07 Batch: WG567789-2								
Chromium, Hexavalent	94		-		85-115	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218701
Report Date: 10/24/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,05-07 QC Batch ID: WG567789-4 WG567789-5 QC Sample: L1218704-06 Client ID: MS Sample												
Chromium, Hexavalent	ND	0.1	0.099	99		0.098	98		85-115	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218701
Report Date: 10/24/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,05-07 QC Batch ID: WG567789-3 QC Sample: L1218701-07 Client ID: SRS1472						
Chromium, Hexavalent	0.010	0.010	mg/l	0		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218701
Project Number: 2158.01 **Report Date:** 10/24/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218701-01A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218701-01B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218701-02A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218701-03A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218701-04A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218701-04B	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218701-05A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218701-05B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218701-06A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218701-06B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218701-07A	Plastic 120ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218701-08A	Other container HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218701
Project Number:	2158.01	**Report Date:**	10/24/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial_No:10241218:23

CHAIN OF CUSTODY

PAGE: 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/17/12

ALPHA Job #: 2121870

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 10/24/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-321 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cr by 6010C	Hex Cr by SM3500Cr-D	Dissolved Cr by 6010C	Sample Specific Comments	TOTAL # BOTTLES
1870 1	MHK_GZ-10	10/17/12	10:26	GW	MTS	X	X			2
2	MHK_GZ-13	10/16/12	14:51	GW	MTS	X				1
3	MHK_GZ-14	10/16/12	11:20	GW	MTS	X				1
4	MHK_SH-19	10/16/12	17:38	GW	MTS	X		X		2
5	OW-321	10/17/12	10:26	GW	MTS	X	X			2
6	EQUIP BLANK	10/17/12	14:44	AQ	MTS	X	X			2
7	SRS1472	10/17/12	12:15	AQ	—		X			1
8	IS0680	10/17/12	12:15	AQ	—	X				1
									SDG is not complete.	
					Container Type	P	P	P		
					Preservative	C	A	C		

Relinquished By:	Date/Time	Received By:	Date/Time
Kelly M Dubois	10/17/12 15:15	Lee Lagier	10/17/12
per Fedex	10/17/12 17:30		10/17/12 17:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

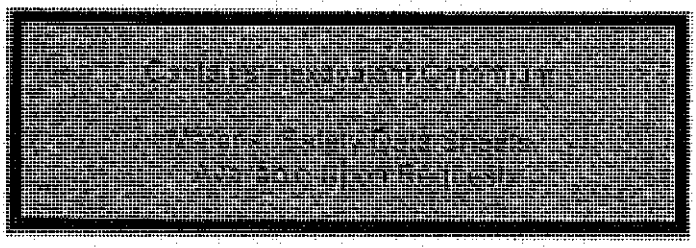
QATS LABORATORY INSTRUCTIONS FOR AQUEOUS HEXAVALENT CHROMIUM PERFORMANCE EVALUATION SAMPLES

THESE INSTRUCTIONS ARE APPLICABLE TO QATS
PES CATALOG NUMBER "SR-PES HVCA" ONLY

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with EPA methods for the analysis of aqueous hexavalent chromium samples.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Aqueous Hexavalent Chromium Performance Evaluation Samples (PESs) for analysis. This set consists of one (1) or more bottles, each containing approximately 100 mL of an aqueous hexavalent chromium solution. Check the chain-of-custody record to determine the number of bottles provided for hexavalent chromium analysis. The bottle(s) should not be opened until sample preparation/analysis is to occur.

CAUTION: Store the sample(s) at 4° C ± 2° C until sample preparation/analysis is to occur. Allow sample(s) to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples are to be analyzed as described in the appropriate method or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the appropriate method or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Allow bottle(s) to reach ambient temperature before opening to remove volumetric amounts for sample preparation. Use a pipette or volumetric glassware to transfer aliquots of bottled solution for analysis.

Instructions for Aqueous Hexavalent Chromium Preparation and Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

For analysis, break the seal on the PES sample bottle and measure the prescribed aliquot as specified in the appropriate method. The sample is ready for processing and analysis. Continue with processing and analysis as described in the appropriate method or your contract.

(E) *REPORTING*

Report the results for the full-volume sample(s) as received.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

Instructions for QATS Catalog Numbers: 95-017-W 99-004 08-005
Low/Medium Concentration Aqueous Metals

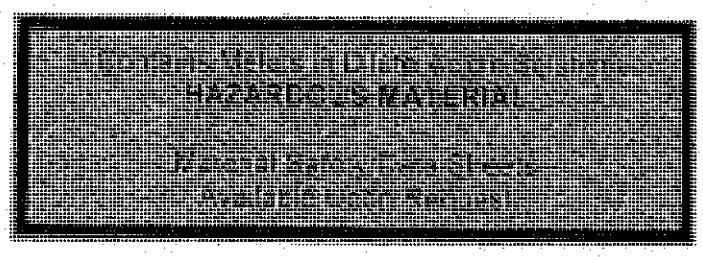
QATS LABORATORY INSTRUCTIONS FOR LOW/MEDIUM CONCENTRATION AQUEOUS METALS PERFORMANCE EVALUATION SAMPLES

THESE INSTRUCTIONS ARE APPLICABLE TO QATS
PES CATALOG NUMBERS 95-017-W, 99-004, & 08-005 ONLY

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Low/Medium Concentration Aqueous Metals Performance Evaluation Samples (PESs) for ICP-AES or ICP-MS analysis. This set consists of one (1) or more bottles, each containing approximately 30 mL of an aqueous metals concentrate (no mercury) in a matrix of 5% (v/v) nitric acid. Check the chain-of-custody record to determine the number of bottles provided for metals analysis. The bottle(s) should not be opened until sample preparation/analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. The sample does not require refrigeration upon receipt. If the sample is refrigerated, allow it to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples generated from these bottle(s) are to be analyzed as described in the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) *GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. If samples have been refrigerated, allow bottles to reach ambient temperature before opening to remove volumetric amounts for sample generation. Use a pipette to transfer volumetric aliquots of bottled solutions to the diluent. Table 1 lists a summary of the required sample preparations.

USE HIGH PURITY ACIDS AND LABORATORY REAGENT GRADE WATER FOR ALL DILUTIONS

TABLE 1. SAMPLE PREPARATION

FRACTION	BOTTLE	VOLUME OF PES TO DILUTE (mL)	TOTAL VOLUME OF SAMPLE (mL)
Metals	Metals	5.0	100.0

Instructions for Aqueous Metals Preparation and Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

For analysis, dilute the aqueous metals PES concentrate 20-fold with 2% (v/v) nitric acid. Break the seal on the PES sample bottle and pipet 5.0 mL of the PES concentrate into a 100 mL volumetric flask. Dilute to volume with 2% (v/v) nitric acid. Mix thoroughly. The sample is now ready for processing and analysis. Continue with processing and analysis as described in the SOW, other appropriate method, or your contract.

NOTE: THIS SAMPLE DOES NOT CONTAIN MERCURY. DO NOT ANALYZE THIS PERFORMANCE EVALUATION SAMPLE FOR MERCURY.

(E) *REPORTING*

Report the results for the diluted sample(s) prepared as directed above, not for the concentrated performance evaluation sample(s) as received in the bottle(s).

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.

ANALYTICAL REPORT

Lab Number:	L1218704
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/25/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1218704-01	MHK_PZ-01	NASHUA, NH	10/16/12 10:45
L1218704-02	MHK_PZ-02	NASHUA, NH	10/16/12 12:39
L1218704-03	MHK_PZ-03	NASHUA, NH	10/16/12 14:50
L1218704-04	MHK_PZ-04	NASHUA, NH	10/16/12 15:33
L1218704-05	MHK_PZ-06	NASHUA, NH	10/17/12 09:20
L1218704-06	MHK_PZ-14	NASHUA, NH	10/17/12 10:30
L1218704-07	OW-331	NASHUA, NH	10/17/12 10:30
L1218704-08	EQUIP BLANK	NASHUA, NH	10/17/12 15:00

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

Case Narrative (continued)

Sample Receipt

The samples were field filtered for Dissolved Metals and Hexavalent Chromium.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative

Date: 10/25/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-01	Date Collected:	10/16/12 10:45
Client ID:	MHK_PZ-01	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:11	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-02	Date Collected:	10/16/12 12:39
Client ID:	MHK_PZ-02	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:14	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-03	Date Collected:	10/16/12 14:50
Client ID:	MHK_PZ-03	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:17	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-04	Date Collected:	10/16/12 15:33
Client ID:	MHK_PZ-04	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	0.02		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:20	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-05	Date Collected:	10/17/12 09:20
Client ID:	MHK_PZ-06	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:23	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-06	Date Collected:	10/17/12 10:30
Client ID:	MHK_PZ-14	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 16:59	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-07	Date Collected:	10/17/12 10:30
Client ID:	OW-331	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 17:38	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218704-08	Date Collected:	10/17/12 15:00
Client ID:	EQUIP BLANK	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/22/12 12:12	10/23/12 12:39	EPA 3005A	1,6010C	BM

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218704

Project Number: 2158.01 **Report Date:** 10/25/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 08 Batch: WG568695-1										
Chromium, Total	ND		mg/l	0.01	--	1	10/22/12 12:12	10/23/12 11:54	1,6010C	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-07 Batch: WG568908-1										
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/23/12 08:47	10/23/12 16:47	1,6010C	BM

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218704

Report Date: 10/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 08 Batch: WG568695-2								
Chromium, Total	105		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG568908-2								
Chromium, Dissolved	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218704
Report Date: 10/25/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 08 QC Batch ID: WG568695-4 QC Sample: L1218072-29 Client ID: MS Sample												
Chromium, Total	ND	0.2	0.20	100		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG568908-3 WG568908-4 QC Sample: L1218704-06 Client ID: MHK_PZ-14												
Chromium, Dissolved	ND	0.263	0.26	99		0.22	110		75-125	17		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 08 QC Batch ID: WG568695-3 QC Sample: L1218072-29 Client ID: DUP Sample						
Chromium, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218704-05
Client ID: MHK_PZ-06
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 09:20
Date Received: 10/17/12
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:40	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218704-06
Client ID: MHK_PZ-14
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 10:30
Date Received: 10/17/12
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:40	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218704-07
Client ID: OW-331
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 10:30
Date Received: 10/17/12
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:41	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218704-08
Client ID: EQUIP BLANK
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 15:00
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:41	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PAR
Project Number: 2158.01
Lab Number: L1218704
Report Date: 10/25/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 05-08 Batch: WG567789-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:38	30,3500CR-D	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218704

Report Date: 10/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-08 Batch: WG567789-2								
Chromium, Hexavalent	94		-		85-115	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218704
Report Date: 10/25/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-08 QC Batch ID: WG567789-4 WG567789-5 QC Sample: L1218704-06 Client ID: MHK_PZ-14												
Chromium, Hexavalent	ND	0.1	0.099	99		0.098	98		85-115	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218704
Report Date: 10/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-08 QC Batch ID: WG567789-3 QC Sample: L1218701-07 Client ID: DUP Sample						
Chromium, Hexavalent	0.010	0.010	mg/l	0		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218704
Project Number: 2158.01 **Report Date:** 10/25/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218704-01A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-02A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-03A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-04A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-05A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-05B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218704-06A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-06B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218704-06C	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-06D	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218704-07A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-SI(180)
L1218704-07B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218704-08A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218704-08B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218704
Project Number:	2158.01	**Report Date:**	10/25/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial_No:10251217:28

CHAIN OF CUSTODY

Date Rec'd in Lab:

ALPHA Job #: L1218704

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 10/24/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-331 Site-specific MS/MSD on MHK_PZ-14

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Dissolved Cr by 6010C	Dissolved Hex Cr by SM3500Cr-D	Cr by 6010C	Hex Cr by SM3500Cr-D	Sample Specific Comments (SAMPLE HANDLING)	TOTAL # BOTTLES
18704-1	MHK_PZ-01	10/16/12	10:45	GW		X					1
2	MHK_PZ-02	10/16/12	12:39	GW		X					1
3	MHK_PZ-03	10/16/12	14:50	GW		X					1
4	MHK_PZ-04	10/16/12	15:33	GW		X					1
5	MHK_PZ-06	10/17/12	9:20	GW		X	X				2
6	MHK_PZ-14	10/17/12	10:30	GW		X	X			MS/MSD	2
7	OW-331	10/17/12	10:30	GW		X	X				2
8	EQUIP BLANK	10/17/12	15:00	GW				X	X	Water Level Meter	2
				Container Type		P	P	P	P		
				Preservative		C	A	C	A		

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
Kelly M Dubois	10/12/12 15:15	[illegible]	10/17/12 1515
[illegible]	10/17/12 1730	[illegible]	10/17/12 1730

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1218885
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/26/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218885
Report Date: 10/26/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1218885-01	MHK_PZ-05	NASHUA, NH	10/17/12 15:03
L1218885-02	MHK_PZ-07	NASHUA, NH	10/18/12 10:52
L1218885-03	MHK_PZ-08	NASHUA, NH	10/18/12 12:35
L1218885-04	MHK_PZ-09	NASHUA, NH	10/18/12 14:12
L1218885-05	MHK_PZ-10	NASHUA, NH	10/18/12 12:17
L1218885-06	MHK_PZ-11	NASHUA, NH	10/17/12 15:20
L1218885-07	MHK_PZ-12	NASHUA, NH	10/18/12 13:48
L1218885-08	MHK_PZ-13	NASHUA, NH	10/18/12 11:29
L1218885-09	MHK_PZ-15	NASHUA, NH	10/18/12 09:25

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218885
Project Number: 2158.01 **Report Date:** 10/26/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 10/26/12

METALS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218885

Project Number: 2158.01 **Report Date:** 10/26/12

SAMPLE RESULTS

Lab ID: L1218885-01 Date Collected: 10/17/12 15:03

Client ID: MHK_PZ-05 Date Received: 10/19/12

Sample Location: NASHUA, NH Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 19:42	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-02	Date Collected:	10/18/12 10:52
Client ID:	MHK_PZ-07	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 19:45	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-03	Date Collected:	10/18/12 12:35
Client ID:	MHK_PZ-08	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 19:57	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-04	Date Collected:	10/18/12 14:12
Client ID:	MHK_PZ-09	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 20:00	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-05	Date Collected:	10/18/12 12:17
Client ID:	MHK_PZ-10	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 20:03	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-06	Date Collected:	10/17/12 15:20
Client ID:	MHK_PZ-11	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	0.01		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 20:06	NA	1,6010C	BM

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218885

Project Number: 2158.01 **Report Date:** 10/26/12

SAMPLE RESULTS

Lab ID: L1218885-07 Date Collected: 10/18/12 13:48

Client ID: MHK_PZ-12 Date Received: 10/19/12

Sample Location: NASHUA, NH Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 20:09	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-08	Date Collected:	10/18/12 11:29
Client ID:	MHK_PZ-13	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 20:12	NA	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218885-09	Date Collected:	10/18/12 09:25
Client ID:	MHK_PZ-15	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 20:15	NA	1,6010C	BM

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218885

Project Number: 2158.01 **Report Date:** 10/26/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-09 Batch: WG569733-1										
Chromium, Dissolved	ND		mg/l	0.01	--	1	10/25/12 14:19	10/25/12 19:02	1,6010C	BM

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218885

Report Date: 10/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-09 Batch: WG569733-2								
Chromium, Dissolved	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218885
Report Date: 10/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG569733-4 QC Sample: L1218846-01 Client ID: MS Sample												
Chromium, Dissolved	ND	0.2	0.21	105		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218885
Report Date: 10/26/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG569733-3 QC Sample: L1218846-01 Client ID: DUP Sample						
Chromium, Dissolved	ND	ND	mg/l	NC		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218885
Report Date: 10/26/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218885-01A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-02A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-03A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-04A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-05A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-06A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-07A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-08A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)
L1218885-09A	Plastic 120ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-SI(180)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218885
Project Number:	2158.01	**Report Date:**	10/26/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE: 1 OF 2

Date Rec'd in Lab: 10/19/12

ALPHA Job #: L12188885

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 10/26/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-331

ANALYSIS

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Dissolved Cr by 6010C	Sample Specific Comments	TOTAL # BOTTLES
18885.1	MHK_PZ-05	10/17/12	15:03	GW	AVK	X		1
2	MHK_PZ-07	10/18/12	10:52	GW	AVK	X		1
3	MHK_PZ-08	10/18/12	12:35	GW	AVK	X		1
4	MHK_PZ-09	10/18/12	14:12	GW	AVK	X		1
5	MHK_PZ-10	10/18/12	12:17	GW	REW	X		1
6	MHK_PZ-11	10/17/12	15:20	GW	AVK	X		1
7	MHK_PZ-12	10/18/12	13:48	GW	MTS	X		1
8	MHK_PZ-13	10/18/12	11:29	GW	REW	X		1
9	MHK_PZ-15	10/18/12	9:25	GW	REW	X		1
							SDG is complete.	
				Container Type		P		
				Preservative		C		

Relinquished By:	Date/Time	Received By:	Date/Time
	10/18/12 17:20		10/18/12 17:20
	10/19/12 12:40		10/19/12 12:40
	10/19/12		10/19/12
	10/19/12 1745		10/19/12 1745

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:10261214:02

CUSTODY SEAL

Date 10/19/12

Signature

CUSTODY SEAL

Date 10/19/12

Signature

CUSTODY SEAL

Date 10/19/12

Signature

ANALYTICAL REPORT

Lab Number:	L1218886
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/26/12

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218886
Report Date: 10/26/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1218886-01	MHK_GZ-11	NASHUA, NH	10/17/12 16:14
L1218886-02	MHK_SH-13	NASHUA, NH	10/18/12 11:53

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218886
Project Number: 2158.01 **Report Date:** 10/26/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 10/26/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218886
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218886-01	Date Collected:	10/17/12 16:14
Client ID:	MHK_GZ-11	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/25/12 09:41	10/25/12 23:03	EPA 3005A	1,6010C	MG

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218886
Project Number:	2158.01	**Report Date:**	10/26/12

SAMPLE RESULTS

Lab ID:	L1218886-02	Date Collected:	10/18/12 11:53
Client ID:	MHK_SH-13	Date Received:	10/19/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.03		mg/l	0.01	--	1	10/25/12 09:41	10/25/12 23:14	EPA 3005A	1,6010C	MG

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218886

Project Number: 2158.01 **Report Date:** 10/26/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG569610-1										
Chromium, Total	ND		mg/l	0.01	--	1	10/25/12 09:41	10/25/12 22:48	1,6010C	MG

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218886

Report Date: 10/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG569610-2								
Chromium, Total	95		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218886
Report Date: 10/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG569610-4 QC Sample: L1218886-01 Client ID: MHK_GZ-11												
Chromium, Total	ND	0.2	0.19	95		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218886
Report Date: 10/26/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG569610-3 QC Sample: L1218886-01 Client ID: MHK_GZ-11						
Chromium, Total	ND	ND	mg/l	NC		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218886
Report Date: 10/26/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218886-01A	Plastic 250ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-TI(180)
L1218886-02A	Plastic 250ml HNO3 preserved	A	<2	3.0	Y	Absent	CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218886
Project Number:	2158.01	**Report Date:**	10/26/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218886
Project Number:	2158.01	**Report Date:**	10/26/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218886
Project Number:	2158.01	**Report Date:**	10/26/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial_No:10261214:18

CHAIN OF CUSTODY

PAGE: 1 OF 1

Date Rec'd in Lab: 10/19/12

ALPHA Job #: L1218886

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 10/26/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info | PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	*Criteria*
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-321 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cr by 6010C	Dissolved Cr by 6010C	Sample Specific Comments	TOTAL # BOTTLES
18886-1	MHK_GZ-11	10/17/12	16:14	GW	MTS	X			1
2	MHK_SH-13	10/18/12	11:53	GW	MTS	X			1
								SDG is complete.	
Container Type						P	P		
Preservative						C	C		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/18/12 17:20	[illegible]	10/19/12 17:20
[illegible]	10/19/12 12:40	[illegible]	10/19/12 12:40
[illegible]	10/19/12	[illegible]	10/19/12 1504
Leo Lapin	10/19/12 1745	Leo Lapin	10/19/12 1745

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

CUSTODY SEAL

Date 10/19/12

Signature

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CUSTODY SEAL

Date 10/19/12

Signature

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CUSTODY SEAL

Date 10/19/12

Signature

ANALYTICAL REPORT

Lab Number:	L1218707
Client:	Sanborn, Head & Associates, Inc. 20 Foundry Street Concord, NH 03301
ATTN:	Kelly Dubois
Phone:	(603) 415-6135
Project Name:	MOHAWK TANNERY SOUTHERN PARCEL
Project Number:	2158.01
Report Date:	10/25/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1218707-01	MHK_SW-01	NASHUA, NH	10/17/12 12:55
L1218707-02	MHK_SW-02	NASHUA, NH	10/17/12 13:31
L1218707-03	OW-341	NASHUA, NH	10/17/12 13:31
L1218707-04	SRS1473	NASHUA, NH	10/17/12 12:15
L1218707-05	IS0709	NASHUA, NH	10/17/12 12:15

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative

Date: 10/25/12

METALS

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218707-01	Date Collected:	10/17/12 12:55
Client ID:	MHK_SW-01	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.02		mg/l	0.01	--	1	10/23/12 10:41	10/24/12 17:17	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218707-02	Date Collected:	10/17/12 13:31
Client ID:	MHK_SW-02	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:31	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218707-03	Date Collected:	10/17/12 13:31
Client ID:	OW-341	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:35	EPA 3005A	1,6010C	BM

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

SAMPLE RESULTS

Lab ID:	L1218707-05	Date Collected:	10/17/12 12:15
Client ID:	IS0709	Date Received:	10/17/12
Sample Location:	NASHUA, NH	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.10		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 20:38	EPA 3005A	1,6010C	BM

Project Name: MOHAWK TANNERY SOUTHERN PARCEL **Lab Number:** L1218707

Project Number: 2158.01 **Report Date:** 10/25/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03,05 Batch: WG568179-1										
Chromium, Total	ND		mg/l	0.01	--	1	10/23/12 10:41	10/23/12 19:37	1,6010C	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218707

Report Date: 10/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03,05 Batch: WG568179-2								
Chromium, Total	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG568179-4 QC Sample: L1218701-01 Client ID: MS Sample												
Chromium, Total	ND	0.2	0.21	105		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG568179-3 QC Sample: L1218701-01 Client ID: DUP Sample						
Chromium, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218707-02
Client ID: MHK_SW-02
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 13:31
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:42	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218707-03
Client ID: OW-341
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 13:31
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:43	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

SAMPLE RESULTS

Lab ID: L1218707-04
Client ID: SRS1473
Sample Location: NASHUA, NH
Matrix: Water

Date Collected: 10/17/12 12:15
Date Received: 10/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	0.010		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:44	30,3500CR-D	JT

Project Name: MOHAWK TANNERY SOUTHERN PAR
Project Number: 2158.01
Lab Number: L1218707
Report Date: 10/25/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG567789-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	10/17/12 22:00	10/17/12 22:38	30,3500CR-D	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL

Project Number: 2158.01

Lab Number: L1218707

Report Date: 10/25/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG567789-2								
Chromium, Hexavalent	94		-		85-115	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01
Lab Number: L1218707
Report Date: 10/25/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG567789-4 WG567789-5 QC Sample: L1218704-06 Client ID: MS Sample												
Chromium, Hexavalent	ND	0.1	0.099	99		0.098	98		85-115	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG567789-3 QC Sample: L1218701-07 Client ID: DUP Sample						
Chromium, Hexavalent	0.010	0.010	mg/l	0		20

Project Name: MOHAWK TANNERY SOUTHERN PARCEL
Project Number: 2158.01

Lab Number: L1218707
Report Date: 10/25/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1218707-01A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218707-02A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218707-02B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218707-03A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)
L1218707-03B	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218707-04A	Plastic 500ml unpreserved	A	7	2.6	Y	Absent	HEXCR-3500(1)
L1218707-05A	Plastic 250ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	MOHAWK TANNERY SOUTHERN PARCEL	**Lab Number:**	L1218707
Project Number:	2158.01	**Report Date:**	10/25/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

L1218707

CHAIN OF CUSTODY

PAGE: 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
Concord, NH 03301
Phone: 603-229-1900
Fax: 603-229-1919
Email: kdubois@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Mohawk Tannery Southern Parcel
Project Location: Nashua, NH
Project #: 2158.01
Project Manager: T. White/K. Dubois
ALPHA Quote #: 2012609

Turn-Around Time

☒ Standard ☐ Rush (only confirmed if pre-approved!)
Date Due: 10/24/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2158.01

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
Superfund	Project-Specific Sampling and Analysis Plan

Other Project Specific Requirements/Comments/Detection Limits:
NHDES Site No. 198404002
Project-Specific Sampling and Analysis Plan
SDG # MT2-341 Lab to choose site-specific MS/MSD

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cr by 6010C	Hex Cr by SM3500Cr-D	Sample Specific Comments	TOTAL # BOTTLES
18707-1	MHK_SW-01	10/17/12	12:55	GW	MTS	X			2
2	MHK_SW-02	10/17/12	13:31	GW	MTS	X	X		2
3	OW-341	10/17/12	13:31	GW	MTS	X	X		2
4	SRS1473	10/17/12	12:15	GW	MTS		X		1
5	IS0709	10/17/12	12:15	GW	MTS	X			1
Container Type						P	P		
Preservative						C	A		

Relinquished By:	Date/Time	Received By:	Date/Time
Kelly M Dubois	10/17/12 15:15	Ken Pam	10/17/12 1730
Ken Pam	10/17/12 1730		10/17/12 1730

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:10251212:35

QATS LABORATORY INSTRUCTIONS FOR AQUEOUS HEXAVALENT CHROMIUM PERFORMANCE EVALUATION SAMPLES

THESE INSTRUCTIONS ARE APPLICABLE TO QATS PES CATALOG NUMBER "SR-PES HVCA" ONLY

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with EPA methods for the analysis of aqueous hexavalent chromium samples.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Hexavalent Chromium

Material Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Aqueous Hexavalent Chromium Performance Evaluation Samples (PESs) for analysis. This set consists of one (1) or more bottles, each containing approximately 100 mL of an aqueous hexavalent chromium solution. Check the chain-of-custody record to determine the number of bottles provided for hexavalent chromium analysis. The bottle(s) should not be opened until sample preparation/analysis is to occur.

CAUTION: Store the sample(s) at 4° C ± 2° C until sample preparation/analysis is to occur. Allow sample(s) to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples are to be analyzed as described in the appropriate method or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the appropriate method or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Allow bottle(s) to reach ambient temperature before opening to remove volumetric amounts for sample preparation. Use a pipette or volumetric glassware to transfer aliquots of bottled solution for analysis.

Instructions for Aqueous Hexavalent Chromium Preparation and Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

For analysis, break the seal on the PES sample bottle and measure the prescribed aliquot as specified in the appropriate method. The sample is ready for processing and analysis. Continue with processing and analysis as described in the appropriate method or your contract.

(E) *REPORTING*

Report the results for the full-volume sample(s) as received.

QATS LABORATORY INSTRUCTIONS FOR LOW/MEDIUM CONCENTRATION AQUEOUS METALS PERFORMANCE EVALUATION SAMPLES

THESE INSTRUCTIONS ARE APPLICABLE TO QATS
PES CATALOG NUMBERS 95-017-W, 99-004, & 08-005 ONLY

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic Solution
HAZARDOUS MATERIAL

Material Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of Low/Medium Concentration Aqueous Metals Performance Evaluation Samples (PESs) for ICP-AES or ICP-MS analysis. This set consists of one (1) or more bottles, each containing approximately 30 mL of an aqueous metals concentrate (no mercury) in a matrix of 5% (v/v) nitric acid. Check the chain-of-custody record to determine the number of bottles provided for metals analysis. The bottle(s) should not be opened until sample preparation/analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. The sample does not require refrigeration upon receipt. If the sample is refrigerated, allow it to reach ambient temperature before proceeding with processing and analysis.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Avenue - Bldg. C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

Samples generated from these bottle(s) are to be analyzed as described in the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) *GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS*

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. If samples have been refrigerated, allow bottles to reach ambient temperature before opening to remove volumetric amounts for sample generation. Use a pipette to transfer volumetric aliquots of bottled solutions to the diluent. Table 1 lists a summary of the required sample preparations.

USE HIGH PURITY ACIDS AND LABORATORY REAGENT GRADE WATER FOR ALL DILUTIONS

TABLE 1. SAMPLE PREPARATION

FRACTION	BOTTLE	VOLUME OF PES TO DILUTE (mL)	TOTAL VOLUME OF SAMPLE (mL)
Metals	Metals	5.0	100.0

Instructions for Aqueous Metals Preparation and Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

For analysis, dilute the aqueous metals PES concentrate 20-fold with 2% (v/v) nitric acid. Break the seal on the PES sample bottle and pipet 5.0 mL of the PES concentrate into a 100 mL volumetric flask. Dilute to volume with 2% (v/v) nitric acid. Mix thoroughly. The sample is now ready for processing and analysis. Continue with processing and analysis as described in the SOW, other appropriate method, or your contract.

NOTE: THIS SAMPLE DOES NOT CONTAIN MERCURY. DO NOT ANALYZE THIS PERFORMANCE EVALUATION SAMPLE FOR MERCURY.

(E) *REPORTING*

Report the results for the diluted sample(s) prepared as directed above, not for the concentrated performance evaluation sample(s) as received in the bottle(s).

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.

APPENDIX A.4

USEPA Contract Laboratory Validation Reports

US EPA Approval Signature

2-19-13
Date

February 19, 2013

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square
Suite 100
Boston, MA 02109

Re: TO No. 85, Task No. 1, TDF No. 2830B
Case No. 42957, SDG No. C0001
AGAT Laboratories - Saint-Laurent, Quebec, Canada
Mohawk Tannery, Nashua, NH
Stage_4_Validation_ Manual (S4VM) for Toxic CB Congeners
Stage_2A_Validation_ Manual (S2AVM) for Total Homologues

Toxic CB Congeners and Total Homologues:

17/Sediment/	C0001, C0002, C0003, C0004, C0005, C0006, C0007, C0008, C0009, C0010, C0011, C0012, C0013, C0014, C0015, C0016, C0017 (Field duplicate pair: C0013/ C0017)
1/Equipment Blank/	C0018
1/PE/	C0019 (C0100)

Dear Mr. Millan-Ramos:

A stage 4 manual validation was performed on the Toxic CB Congeners analytical data, and a stage 2A manual validation was performed on the Total Homologues analytical data for 17 sediment samples, one equipment blank sample, and one performance evaluation sample collected by Sanborn, Head, and Associates for the U.S. EPA at the Mohawk Tannery Site in Nashua, NH. The samples were analyzed according to USEPA SOW CBC01.2, December 2009. The samples were validated using the criteria in the USEPA SOW CBC01.2, December 2009, and the EPA Region I's Environmental Services Assistance Team Chlorinated Biphenyl Congeners Data Validation ESAT-01-0008 (4/24/12) as specified in the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012. The data were evaluated based on the following parameters:

*	I.	Data Completeness
*	II.	Preservation and Holding Times
*	III.	Accuracy Check (Performance Evaluation Results)
*	IV.	Window Defining Mix
	V.	Initial and Continuing Calibrations
*	VI.	Chromatographic Resolution
	VII.	Blanks
N/A	VIII.	Matrix Spike/Matrix Spike Duplicate
*	IX.	Laboratory Control Sample
	X.	Field Duplicates
	XI.	Labeled Toxics/LOC/Window Defining Congeners and Clean-Up Standards

*	XII.	Sample Analysis and Identification
	XIII.	Sample Quantitation
*	XIV.	2378-TCDD Toxicity Equivalents (TE)
*	XV.	Required Sample Reruns
*	XVI.	System Performance

* All criteria were met for this parameter.

Electronic Data Review Reports were not used for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

One single-blind PE sample C0018 (C0100) was analyzed by the laboratory. All analytes were scored "Within Limits".

Data validation indicated some data quality problems. Results were qualified as noted below:
Toxic CB Congeners (S4VM)
Results were qualified due to noncompliant CCV recovery, method blank contamination, and field duplicate precision.

Total Homologues (S2AVM)
Results were qualified due to method blank contamination, field duplicate precision, low and high labeled compound recovery, and quantitation procedures. Please note that the non-detected Total MoCB results in sample C0009 and the equipment blank C0018 were rejected (R) due to labeled compound recovery of less than the gross lower limit (10%).

See the attached worksheets for details. The results reported on the Data Summary Tables are usable for the site objectives with the exception of the rejected results for Total MoCB as noted for samples C0009 and C0018.

February 19, 2013

Very truly yours,

Leslie Downey
Data Validator

Louis Macri
Program Manager

Attachments: Data Summary Tables
Data Validation Worksheets
Support Documentation
PE Score Results
Communications
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: C0001 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	C0001		C0002		C0003		C0004		C0005		C0006	
Location:	MHK_SED-01_ 0-.3		MHK_SED-02_ 0-.3		MHK_SED-03_ 0-.3		MHK_SED-04_ 0-.3		MHK_SED-05_ 0-.3		MHK_SED-06_ 0-.3	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	76.7		74.1		65.8		68.2		68.2		70.0	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	67.4		78.0		135		129		110		51.6	
PCB-81	1.3	J	2.2	J	3.1		3.0		2.6	J	1.2	J
PCB-105	124		414		365		256		249		121	
PCB-114	6.2		21.8		19.5		11.7		10.0		5.3	
PCB-118	379		1020		958		669		624		310	
PCB-123	5.9		17.5		17.5		13.8		13.1		6.7	
PCB-126	1.1	J	1.9	J	3.4		2.9		2.5	J	1.2	J
PCB-156/157	42.7		173		230		89.2		90.5		41.2	
PCB-167	14.8		52.0		73.5		31.8		31.9		14.5	
PCB-169	0.4	J	1.1	J	1.4	J	1.0	J	1.1	J	5.0	
PCB-189	2.7		6.6		12.1		6.1		6.3	J[1]	3.0	J[1]
Toxic Equivalent #	0.15	J	0.28	J	0.45	J	0.37	J	0.33	J	0.29	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J) the affected analyte.

[2] - Field duplicate precision outside of QC limits; Estimate (J) the affected analyte.

[3] - Method blank contamination; The positive sample results that are less than the CRQL and less than the blank level are reported as non-detects (U) at the CRQL.

Lab: AGAT Laboratories **SDG**: C0001 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	C0007		C0008		C0009		C0010		C0011		C0012	
Location:	MHK_SED-07_ 0-.3		MHK_SED-08_ 0-.3		MHK_SED-09_ 0-.3		MHK_SED-10_ 0-.3		MHK_SED-11_ 0-.3		MHK_SED-12_ 0-.3	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Dilution Factor:	1		1		1		1		1		1, 2(D)	
% Solids:	62.4		76.2		80.8		72.1		31.1		41.2	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	173		70.3		5.2		61.1		1770		1510	
PCB-81	3.2		2.0	J	0.1	J	1.5	J	46.8		39.4	
PCB-105	423		179		13.1		168		4070		5420	
PCB-114	17.2		8.4		2.5	U	8.5		218		323	
PCB-118	1060		418		35.3		427		9540		15800	D
PCB-123	21.6		9.5		0.6	J	8.1		206		235	
PCB-126	4.2		2.1	J	0.2	J	2.0	J	38.4		33.4	
PCB-156/157	148		64.8		5.1		66.9		1370		2390	
PCB-167	52.4		22.4		1.8	J	22.5		471		748	
PCB-169	1.3	J	0.8	J	2.5	U	0.8	J	14.7		18.5	
PCB-189	9.8		4.2	J[1]	0.4	J[1]	4.2	J[1]	93.3	J[1]	118	J[1]
Toxic Equivalent #	0.53	J	0.26	J	0.022	J	0.25	J	4.95	J	4.81	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J) the affected analyte.

[2] - Field duplicate precision outside of QC limits; Estimate (J) the affected analyte.

[3] - Method blank contamination; The positive sample results that are less than the CRQL and less than the blank level are reported as non-detects (U) at the CRQL.

Lab: AGAT Laboratories **SDG**: C0001 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	C0013		C0014		C0015		C0016		C0017		C0018	
Location:	MHK_SED-13_ 0-.3		MHK_SED-14_ 0-.3		MHK_SED-15_ 0-.3		MHK_SED-16_ 0-.3		OW-411		EQUIP BLANK	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		Field_Blank	
Matrix:	Sediment		Sediment		Sediment		Sediment		Sediment		Water	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	58.6		59.2		61.7		69.0		57.6		N/A	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		pg/L	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	58.9	J[2]	42.2		89.7		561		101	J[2]	20	U
PCB-81	1.4	J	1.0	J	4.5		12.8		3.8		20	U
PCB-105	223		219		261		917		296		20	U[3]
PCB-114	8.4	J[2]	6.2		15.4		48.1		14.3	J[2]	20	U
PCB-118	614		607		404		2540		780		20	U[3]
PCB-123	18.2		9.2		10.7		44.0		22.3		20	U
PCB-126	7.3		3.1	J	3.5		8.5		9.6		20	U
PCB-156/157	129		124		57.8		292		167		40	U
PCB-167	59.6		52.4		22.0		104		78.4		20	U
PCB-169	3.1	J	2.3	J	1.5	J	3.2		3.8		20	U
PCB-189	13.0		8.7		6.1	J[1]	19.9	J[1]	16.4	J[1]	20	UJ[1]
Toxic Equivalent #	0.86	J	0.41	J	0.43	J	1.12		1.13	J	0.0	UJ

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J) the affected analyte.

[2] - Field duplicate precision outside of QC limits; Estimate (J) the affected analyte.

[3] - Method blank contamination; The positive sample results that are less than the CRQL and less than the blank level are reported as non-detects (U) at the CRQL.

Lab: AGAT Laboratories **SDG**: C0001 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0001		C0002		C0003		C0004		C0005		C0006	
Location:	MHK_SED-01_ 0-.3		MHK_SED-02_ 0-.3		MHK_SED-03_ 0-.3		MHK_SED-04_ 0-.3		MHK_SED-05_ 0-.3		MHK_SED-06_ 0-.3	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	76.7		74.1		65.8		68.2		68.2		70.0	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	32.0	J[1]	15.7	J[1]	24.9	J[1]	24.9	J[1]	29.4	J[1]	24.1	J[1]
Total DiCB	683	J[1]	724	J[1]	922	J[1]	936	J[1]	637	J[1]	479	J[1]
Total TrCB	3510	J[1]	3070	J[1]	5520	J[1]	4530	J[1]	3470	J[1]	1830	J[1]
Total TeCB	4820	J[1]	5870	J[1]	7970	J[1]	6750	J[1]	4910	J[1]	2990	J[1]
Total PeCB	2510	J[1]	6710	J[1]	5700	J[1]	4140	J[1]	4240	J[1]	2140	J[1]
Total HxCB	1440	J[1]	4690	J[1]	5330	J[1]	4650	J[1, 4]	2980	J[1]	1330	J[1]
Total HpCB	637	J[1]	1220	J[1]	1960	J[1]	1380	J[1]	1380	J[1]	681	J[1]
Total OcCB	333	J[1]	367	J[1]	684	J[1]	620	J[1]	786	J[1]	450	J[1]
Total NoCB	439	J[1]	117	J[1]	226	J[1]	194	J[1]	270	J[1]	916	J[1]
DeCB	33.2		50.4		93.6		83.4		107		36.1	
Total PCBs ^	14400	J	22800	J	28400	J	23300	J	18800	J	10900	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Field duplicate precision outside of QC limits; Estimate (J) the postive results for the affected homologue group.

[3] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

[4] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[5] - Method blank contamination; The positive sample results that are less than the blank level are reported as non-detects (U) at the reported concentration.

Lab: AGAT Laboratories **SDG**: C0001 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0007		C0008		C0009		C0010		C0011		C0012	
Location:	MHK_SED-07_ 0-.3		MHK_SED-08_ 0-.3		MHK_SED-09_ 0-.3		MHK_SED-10_ 0-.3		MHK_SED-11_ 0-.3		MHK_SED-12_ 0-.3	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Dilution Factor:	1		1		1		1		1		1, 2(D)	
% Solids:	62.4		76.2		80.8		72.1		31.1		41.2	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	44.8	J[1]	19.5	J[1]	R[3]		29.6	J[1]	266	J[1]	265	J[1]
Total DiCB	1060	J[1]	452	J[1]	60.8	J[1, 4]	1550	J[1, 4]	17700	J[1, 4]	23200	J[1]
Total TrCB	4980	J[1]	1810	J[1]	265	J[1]	2400	J[1]	55600	J[1]	47300	J[1]
Total TeCB	9290	J[1]	2990	J[1]	385	J[1]	3770	J[1]	92900	J[1]	102000	J[1]
Total PeCB	7630	J[1]	2900	J[1]	252	J[1]	3040	J[1]	70500	J[1]	116000	D J[1]
Total HxCB	7290	J[1, 4]	2130	J[1]	171	J[1]	2770	J[1, 4]	43600	J[1]	69600	J[1]
Total HpCB	2470	J[1]	986	J[1]	79.2	J[1]	860	J[1]	19000	J[1]	22100	J[1]
Total OcCB	1230	J[1]	453	J[1]	81.3	J[1]	531	J[1]	8020	J[1]	7290	J[1]
Total NoCB	812	J[1]	384	J[1]	352	J[1]	804	J[1]	3470	J[1]	1860	J[1]
DeCB	129		56.0		5.3		51.8		861		979	
Total PCBs ^	34900	J	12200	J	1650	J	15800	J	312000	J	390000	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Field duplicate precision outside of QC limits; Estimate (J) the postive results for the affected homologue group.

[3] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

[4] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[5] - Method blank contamination; The positive sample results that are less than the blank level are reported as non-detects (U) at the reported concentration.

Lab: AGAT Laboratories **SDG**: C0001 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0013		C0014		C0015		C0016		C0017		C0018	
Location:	MHK_SED-13_ 0-.3		MHK_SED-14_ 0-.3		MHK_SED-15_ 0-.3		MHK_SED-16_ 0-.3		OW-411		EQUIP BLANK	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		Field_Blank	
Matrix:	Sediment		Sediment		Sediment		Sediment		Sediment		Water	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	58.6		59.2		61.7		69.0		57.6		N/A	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		pg/L	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	32.6	J[1, 2]	14.4	J[1]	10.0	J[1]	163	J[1]	13.6	J[1, 2]	R[3]	
Total DiCB	330	J[1]	228	J[1]	201	J[1]	10800	J[1, 4]	447	J[1]	ND	
Total TrCB	1810	J[1]	952	J[1]	3040	J[1]	23500	J[1]	2420	J[1]	49.1	UJ[1, 4, 5]
Total TeCB	2390	J[1]	1970	J[1]	6520	J[1]	34400	J[1]	3860	J[1]	ND	
Total PeCB	4060	J[1]	5200	J[1]	3230	J[1]	19500	J[1]	5230	J[1]	60.4	J[1]
Total HxCB	4820	J[1]	5540	J[1]	2330	J[1]	11000	J[1]	5990	J[1]	ND	
Total HpCB	2740	J[1]	2030	J[1]	1580	J[1]	4280	J[1]	2980	J[1]	ND	
Total OcCB	3260	J[1, 2]	796	J[1]	522	J[1]	1860	J[1]	1380	J[1, 2]	ND	
Total NoCB	21900	J[1, 2]	151	J[1, 4]	102	J[1]	929	J[1]	601	J[1, 2]	ND	
DeCB	310		223		40.2		149		344		ND	
Total PCBs ^	41700	J	17100	J	17600	J	106000	J	23300	J	60.4	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Field duplicate precision outside of QC limits; Estimate (J) the postive results for the affected homologue group.

[3] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

[4] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[5] - Method blank contamination; The positive sample results that are less than the blank level are reported as non-detects (U) at the reported concentration.

US EPA Approval Signature

2-14-13
Date

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square
Suite 100
Boston, MA 02109

February 13, 2013

Re: TO No. 85, Task No. 1, TDF No. 2829C
Case No. 42957, SDG No. F0001
AGAT Laboratories - Saint-Laurent, Quebec, Canada
Mohawk Tannery, Nashua, NH
Stage_4_Validation_ Manual (S4VM)

Dioxin/Furan:	17/Sediment/	F0001, F0002, F0003, F0004, F0005, F0006 F0007, F0008, F0009, F0010, F0011, F0012 F0013, F0014, F0015, F0016, F0017 (Field duplicate pair: F0013/ F0017)
	1/Equipment Blank/	F0018
	2/PE/	F0019 (DS00323), F0020 (PC1056)

Dear Mr. Millan-Ramos:

A stage 4 manual validation was performed on the dioxin/furan analytical data for seventeen sediment samples, one equipment blank sample, and two performance evaluation samples collected by Sanborn, Head, and Associates for the U.S. EPA at the Mohawk Tannery Site in Nashua, NH. The samples were analyzed according to USEPA SOW DLM02.2, December 2009. The samples were validated using the criteria in the USEPA SOW DLM02.2, December 2009, USEPA CLP National Functional Guidelines for CDDs and CDFs Data Review, and the EPA Region I's Environmental Services Assistance Team Dioxin/Furan Data Validation SOP ESAT-01-0007 (4/23/12) as specified in the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012. The data were evaluated based on the following parameters:

*	I.	Data Completeness
*	II.	Preservation and Holding Times
*	III.	Accuracy Check (Performance Evaluation Results)
*	IV.	Window Defining Mix
	V.	Initial and Continuing Calibrations
	VI.	Chromatographic Resolution
	VII.	Blanks
*	VIII.	Laboratory Control Sample
*	IX.	Field Duplicates
*	X.	Labeled Compounds and Clean-Up Standard
*	XI.	Identification Criteria
*	XII.	Sample Quantitation
*	XIII.	2378-TCDD Toxicity Equivalents (TE)
*	XIV.	Dilutions, Reruns, and Second Column Confirmation

* XV. System Performance

* All criteria were met for this parameter.

Stage 2B Electronic Data Review Reports were not evaluated for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Two single-blind PE samples (fortified native soil F0019 (DS00323) and native soil blank F0020 (PC1056)) were analyzed by the laboratory. All analytes were scored "Within Limits".

Data validation indicated some data quality problems. Results were qualified due to method and equipment blank contamination, continuing calibration check not performed, MS calibration/resolution (PFK) not documented, and instrument sensitivity check (resolution) not performed. See the attached worksheets for details. The results reported on the Data Summary Tables are usable for the site objectives.

Very truly yours,

Robert Peary
Sr. Chemist

Louis Macri
Program Manager

Attachments: Data Summary Tables
Data Validation Worksheets
Support Documentation
PE Score Results
Communications
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0001 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0001			F0002			F0003			F0004		
Sample Location:	MHK_SED-01_0-.3			MHK_SED-02_0-.3			MHK_SED-03_0-.3			MHK_SED-04_0-.3		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Sediment/Low			Sediment/Low			Sediment/Low			Sediment/Low		
% Solids:	73.99			73.46			64.72			69.03		
Dilution Factor:	1			1			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.27		J[4, 6]	0.22		J[4, 6]	0.37		J[4, 6]	0.37		J[4, 6]
2,3,7,8-TCDF	1.48			1.32			7.91			5.76		
1,2,3,7,8-PeCDF	0.24		J[4, 6]		0.1	U	1.77		J[4, 6]	1.15		J[4, 6]
1,2,3,7,8-PeCDD	0.66		J[4, 6]	0.91		J[4, 6]	1.45		J[4, 6]	1.30		J[4, 6]
2,3,4,7,8-PeCDF	0.42		J[4, 6]	0.60		J[4, 6]	1.75		J[4, 6]	1.29		J[4, 6]
1,2,3,4,7,8-HxCDF	1.53		J[4, 6]	1.92		J[4, 6]	3.94		J[4, 6]	3.90		J[4, 6]
1,2,3,6,7,8-HxCDF	0.78		J[4, 6]	1.03		J[4, 6]	1.89		J[4, 6]	1.75		J[4, 6]
1,2,3,4,7,8-HxCDD	1.66		J[4, 6]	1.98		J[4, 6]	3.41		J[4, 6]	3.17		J[4, 6]
1,2,3,6,7,8-HxCDD	5.84		J[4, 6]	8.81		J[4, 6]	14.3		J[4, 6]	13.3		J[4, 6]
1,2,3,7,8,9-HxCDD	4.77		J[4, 6]	6.84		J[4, 6]	10.4		J[4, 6]	9.46		J[4, 6]
2,3,4,6,7,8-HxCDF	1.30		J[4, 6]	1.05		J[4, 6]	3.19		J[4, 6]	3.11		J[4, 6]
1,2,3,7,8,9-HxCDF		0.2	U		0.3	U		0.1	U		0.2	U
1,2,3,4,6,7,8-HpCDF	39.9		J[6]	59.8		J[6]	101		J[6]	88.2		J[6]
1,2,3,4,6,7,8-HpCDD	181		J[6]	285		J[6]	461		J[6]	404		J[6]
1,2,3,4,7,8,9-HpCDF	1.46		J[6]	2.24		J[6]	3.11		J[6]	3.00		J[6]
OCDD	1620		J[6]	2300		J[6]	3780		J[6]	3340		J[6]
OCDF	69.7		J[6]	105		J[6]	153		J[6]	144		J[6]
Total TCDDs	2.72		J	2.42		J	4.64		J	4.02		J
Total PeCDDs	8.85		J	10.5		J	16.1		J	16.3		J
Total HxCDDs	51.8		J	86.1		J	111		J	100		J
Total HpCDDs	344		J	504		J	821		J	733		J
Total TCDFs	9.81		J	9.10		J	31.4		J	27.6		J
Total PeCDFs	8.11		J	10.3		J	23.7		J	21.7		J
Total HxCDFs	39.8		J	74.0		J	87.9		J	84.3		J
Total HpCDFs	111		J	174		J	265		J	238		J
Toxic Equivalent #	5.53		J	7.80		J	13.7		J	12.1		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as “EMPC” in the Final Result column.

= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The congener concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values with no superscripts.

J, UJ - The concentrations reported for the Total TCDDs through Total HpCDFs are all estimated (J, UJ) due to the particular nature of the quantitation procedure used to calculate the total homologues.

[1] Method blank contamination; the positive sample results that are less than the method blank results are reported as non-detects (U) for sample F0018 (EB).

[2] Equipment blank contamination; the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples as evidenced by the aqueous equipment blank contamination.

[3] No opening continuing calibration standard for DB-225 confirmation analysis; estimate (J) 2,3,7,8-TCDF result for sample F0013.

[4] Instrument Sensitivity Check (resolution) not performed at beginning and/or end of sample sequence; estimate (J) positive results for affected congeners.

[5] No Instrument Sensitivity Check (resolution) performed with the DB-225 confirmation analysis sequence; estimate (J) positive result for 2,3,7,8,-TCDF in sample F0013.

[6] Mass Calibration/MS Resolution (PFK) not documented at beginning or end of sample sequence; estimate (J) positive results.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0001 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0005			F0006			F0007			F0008		
Sample Location:	MHK_SED-05_0-.3			MHK_SED-06_0-.3			MHK_SED-07_0-.3			MHK_SED-08_0-.3		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Sediment/Low			Sediment/Low			Sediment/Low			Sediment/Low		
% Solids:	67.55			65.41			62.38			73.31		
Dilution Factor:	1			1			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.29		J[4, 6]	0.29		J[4, 6]	0.52		J[4, 6]	0.26		J[4, 6]
2,3,7,8-TCDF	8.67			2.43			5.01			1.77		
1,2,3,7,8-PeCDF	2.63		J[4, 6]	0.51		J[4, 6]	1.01		J[4, 6]	0.33		J[4, 6]
1,2,3,7,8-PeCDD	1.03		J[4, 6]	0.87		J[4, 6]	1.85		J[4, 6]	0.90		J[4, 6]
2,3,4,7,8-PeCDF	2.12		J[4, 6]	0.71		J[4, 6]	1.33		J[4, 6]	0.63		J[4, 6]
1,2,3,4,7,8-HxCDF	4.08		J[4, 6]	2.30		J[4, 6]	5.20		J[4, 6]	2.41		J[4, 6]
1,2,3,6,7,8-HxCDF	1.70		J[4, 6]	1.10		J[4, 6]	2.33		J[4, 6]	1.02		J[4, 6]
1,2,3,4,7,8-HxCDD	2.65		J[4, 6]	2.00		J[4, 6]	4.46		J[4, 6]	2.43		J[4, 6]
1,2,3,6,7,8-HxCDD	12.0		J[4, 6]	8.15		J[4, 6]	18.2		J[4, 6]	8.35		J[4, 6]
1,2,3,7,8,9-HxCDD	8.17		J[4, 6]	6.15		J[4, 6]	14.1		J[4, 6]	6.69		J[4, 6]
2,3,4,6,7,8-HxCDF	2.60		J[4, 6]	2.06		J[4, 6]	4.31		J[4, 6]	2.15		J[4, 6]
1,2,3,7,8,9-HxCDF		0.1	U		0.1	U		0.2	U		0.1	U
1,2,3,4,6,7,8-HpCDF	78.3		J[6]	59.0		J[6]	135		J[6]	57.7		J[6]
1,2,3,4,6,7,8-HpCDD	337		J[6]	236		J[6]	580		J[6]	265		J[6]
1,2,3,4,7,8,9-HpCDF	2.53		J[6]	1.71		J[6]	4.26		J[6]	1.74		J[6]
OCDD	2790		J[6]	1890		J[6]	4460		J[6]	2080		J[6]
OCDF	113		J[6]	83.7		J[6]	212		J[6]	90.9		J[6]
Total TCDDs	3.56		J	2.62		J	5.46		J	2.51		J
Total PeCDDs	11.3		J	9.13		J	18.9		J	8.93		J
Total HxCDDs	84.1		J	61.1		J	135		J	62.9		J
Total HpCDDs	604		J	429		J	1030		J	465		J
Total TCDFs	34.5		J	16.5		J	32.2		J	12.8		J
Total PeCDFs	25.6		J	14.0		J	27.5		J	11.8		J
Total HxCDFs	74.7		J	53.1		J	118		J	52.2		J
Total HpCDFs	213		J	147		J	358		J	153		J
Toxic Equivalent #	11.1		J	7.37		J	16.8		J	7.74		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as "EMPC" in the Final Result column.

= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

S4VM DATA VALIDATION QUALIFIER COMMENTS:

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J, UJ - The concentrations reported for the Total TCDDs through Total HpCDFs are all estimated (J, UJ) due to the particular nature of the quantitation procedure used to calculate the total homologues.

[1] Method blank contamination; the positive sample results that are less than the method blank results are reported as non-detects (U) for sample F0018 (EB).

[2] Equipment blank contamination; the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples as evidenced by the aqueous equipment blank contamination.

[3] No opening continuing calibration standard for DB-225 confirmation analysis; estimate (J) 2,3,7,8-TCDF result for sample F0013.

[4] Instrument Sensitivity Check (resolution) not performed at beginning and/or end of sample sequence; estimate (J) positive results for affected congeners.

[5] No Instrument Sensitivity Check (resolution) performed with the DB-225 confirmation analysis sequence; estimate (J) positive result for 2,3,7,8,-TCDF in sample F0013.

[6] Mass Calibration/MS Resolution (PFK) not documented at beginning or end of sample sequence; estimate (J) positive results.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0001 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0009			F0010			F0011			F0012		
Sample Location:	MHK_SED-09_0-.3			MHK_SED-10_0-.3			MHK_SED-11_0-.3			MHK_SED-12_0-.3		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Sediment/Low			Sediment/Low			Sediment/Low			Sediment/Low		
% Solids:	78.35			72.47			31.14			37.59		
Dilution Factor:	1			1			1			1, 5(D)		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD		0.1	U	0.25		J	1.41		J	2.40		J
2,3,7,8-TCDF	0.20		J	2.30			9.85			18.0		
1,2,3,7,8-PeCDF		0.1	U	0.46		J	1.54		J	2.99		J
1,2,3,7,8-PeCDD		0.1	U	0.80		J	5.36		J	7.68		J
2,3,4,7,8-PeCDF		0.1	U	0.73		J	3.43		J	5.49		J
1,2,3,4,7,8-HxCDF	0.15		J[4, 6]	2.42		J	15.5			25.2		
1,2,3,6,7,8-HxCDF	0.12		J[4, 6]	1.58		J	7.67		J	13.4		
1,2,3,4,7,8-HxCDD		0.1	U	1.51		J	13.7		J	20.6		
1,2,3,6,7,8-HxCDD	0.50		J[4, 6]	9.79			66.6			95.8		
1,2,3,7,8,9-HxCDD	0.42		J[4, 6] EB[2]	5.25		J	42.4			67.2		
2,3,4,6,7,8-HxCDF	0.16		J[4, 6]	3.38		J	13.8		J	22.3		
1,2,3,7,8,9-HxCDF		0.1	U		0.1	U	0.64		J		1.1	U
1,2,3,4,6,7,8-HpCDF	4.38		J[6]	98.4			516			708		
1,2,3,4,6,7,8-HpCDD	16.9		J[6]	347			2010			3340		
1,2,3,4,7,8,9-HpCDF		0.2	U	3.24		J	15.6			21.7		
OCDD	170		J[6]	4190			16300			26400		J[6] D
OCDF	7.54		J[6] EB[2]	186			714			1040		
Total TCDDs	0.24		J	2.34		J	13.8		J	27.3		J
Total PeCDDs	0.55		J	9.13		J	56.1		J	102		J
Total HxCDDs	4.29		J EB[2]	62.5		J	449		J	744		J
Total HpCDDs	30.9		J	635		J	3570		J	6100		J
Total TCDFs	0.60		J	14.6		J	77.0		J	166		J
Total PeCDFs		0.1	UJ	13.7		J	89.6		J	157		J
Total HxCDFs	3.90		J EB[2]	80.2		J	398		J	604		J
Total HpCDFs	11.3		J	275		J	1300		J	1840		J
Toxic Equivalent #	0.421		J	9.71		J	55.4		J	87.0		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as “EMPC” in the Final Result column.

= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

S4VM DATA VALIDATION QUALIFIER COMMENTS:

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J, UJ - The concentrations reported for the Total TCDDs through Total HpCDFs are all estimated (J, UJ) due to the particular nature of the quantitation procedure used to calculate the total homologues.

[1] Method blank contamination; the positive sample results that are less than the method blank results are reported as non-detects (U) for sample F0018 (EB).

[2] Equipment blank contamination; the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples as evidenced by the aqueous equipment blank contamination.

[3] No opening continuing calibration standard for DB-225 confirmation analysis; estimate (J) 2,3,7,8-TCDF result for sample F0013.

[4] Instrument Sensitivity Check (resolution) not performed at beginning and/or end of sample sequence; estimate (J) positive results for affected congeners.

[5] No Instrument Sensitivity Check (resolution) performed with the DB-225 confirmation analysis sequence; estimate (J) positive result for 2,3,7,8,-TCDF in sample F0013.

[6] Mass Calibration/MS Resolution (PFK) not documented at beginning or end of sample sequence; estimate (J) positive results.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0001 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0013			F0014			F0015			F0016		
Sample Location:	MHK_SED-13_0-.3			MHK_SED-14_0-.3			MHK_SED-15_0-.3			MHK_SED-16_0-.3		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Sediment/Low			Sediment/Low			Sediment/Low			Sediment/Low		
% Solids:	57.71			60.31			64.61			68.82		
Dilution Factor:	1			1, 50(D)			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.24		J[4]	5.47			0.16		J	0.83		J
2,3,7,8-TCDF	3.48		J[3, 5, 6]	1.14		J	0.32		J	8.90		
1,2,3,7,8-PeCDF	0.96		J[4]	1.60		J	0.21		J	0.64		J
1,2,3,7,8-PeCDD	0.92		J[4]	11.8			0.46		J	2.83		J
2,3,4,7,8-PeCDF	1.39		J[4]	2.41		J	0.37		J	1.47		J
1,2,3,4,7,8-HxCDF	3.23		J[4]	24.5			0.95		J	5.99		J
1,2,3,6,7,8-HxCDF	1.60		J[4]	14.7			0.63		J	3.05		J
1,2,3,4,7,8-HxCDD	2.17		J[4]	16.0			0.73		J	6.36		J
1,2,3,6,7,8-HxCDD	8.40		J[4]	208			1.74		J	25.2		
1,2,3,7,8,9-HxCDD	5.94		J[4] EB[2]	75.2			2.01		J EB[2]	18.0		
2,3,4,6,7,8-HxCDF	2.98		J[4]	69.0			1.04		J	5.38		J
1,2,3,7,8,9-HxCDF		0.2	U	1.25		J		0.1	U	0.36		J
1,2,3,4,6,7,8-HpCDF	55.4			2040			11.7			141		
1,2,3,4,6,7,8-HpCDD	343			6870		J[6] D	60.3			675		
1,2,3,4,7,8,9-HpCDF	2.12		J	71.0			0.59		J	4.67		J
OCDD	3480			110000		J[6] D	592			5580		
OCDF	104			5630			23.2			164		
Total TCDDs	4.62		J	61.1		J	1.86		J	9.14		J
Total PeCDDs	13.2		J EB[2]	286		J	4.01		J	24.1		J
Total HxCDDs	65.9		J	1750		J	17.2		J	187		J
Total HpCDDs	628		J	12900		J	114		J	1250		J
Total TCDFs	31.3		J	51.9		J	7.30		J	54.4		J
Total PeCDFs	24.6		J	161		J	5.58		J	40.7		J
Total HxCDFs	54.1		J	1920		J	13.7		J	136		J
Total HpCDFs	148		J	7480		J	30.7		J	346		J
Toxic Equivalent #	9.47		J	184		J	2.39		J	21.4		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as "EMPC" in the Final Result column.

= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

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[1] Method blank contamination; the positive sample results that are less than the method blank results are reported as non-detects (U) for sample F0018 (EB).

[2] Equipment blank contamination; the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples as evidenced by the aqueous equipment blank contamination.

[3] No opening continuing calibration standard for DB-225 confirmation analysis; estimate (J) 2,3,7,8-TCDF result for sample F0013.

[4] Instrument Sensitivity Check (resolution) not performed at beginning and/or end of sample sequence; estimate (J) positive results for affected congeners.

[5] No Instrument Sensitivity Check (resolution) performed with the DB-225 confirmation analysis sequence; estimate (J) positive result for 2,3,7,8,-TCDF in sample F0013.

[6] Mass Calibration/MS Resolution (PFK) not documented at beginning or end of sample sequence; estimate (J) positive results.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0001 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0017			F0018		
Sample Location:	OW-411			EQUIP BLANK		
Sample Type:	Field_Duplicate			Field_Blank		
Matrix/Level:	Sediment/Low			Water		
% Solids:	57.98			NA		
Dilution Factor:	1			1		
Units:	ng/kg (dry weight)			pg/L		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.32		J[4]		0.5	U
2,3,7,8-TCDF	5.41				0.4	U
1,2,3,7,8-PeCDF	1.34		J[4]		0.3	U
1,2,3,7,8-PeCDD	0.88		J[4]		0.4	U
2,3,4,7,8-PeCDF	1.87		J[4]		0.3	U
1,2,3,4,7,8-HxCDF	4.21		J[4]		0.6	U
1,2,3,6,7,8-HxCDF	1.81		J[4]		0.6	U
1,2,3,4,7,8-HxCDD	1.98		J[4]		0.8	U
1,2,3,6,7,8-HxCDD	9.75		J[4]		0.8	U
1,2,3,7,8,9-HxCDD	5.70		J[4] EB[2]	0.91		J
2,3,4,6,7,8-HxCDF	3.51		J[4]		0.6	U
1,2,3,7,8,9-HxCDF	0.15		J[4]		0.8	U
1,2,3,4,6,7,8-HpCDF	60.0				2.2	U
1,2,3,4,6,7,8-HpCDD	387				3.9	U
1,2,3,4,7,8,9-HpCDF	2.34		J		3.2	U
OCDD	3950			8.33		J
OCDF	116			2.82		J
Total TCDDs	5.46		J		0.5	UJ
Total PeCDDs	13.6		J EB[2]	1.93		J
Total HxCDDs	69.8		J	3.51		J
Total HpCDDs	699		J		3.9	UJ
Total TCDFs	29.1		J		0.62	UJ[1]
Total PeCDFs	26.3		J		0.3	UJ
Total HxCDFs	59.3		J	0.93		J
Total HpCDFs	164		J		2.2	UJ
Toxic Equivalent #	10.8		J	0.0943		J

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[3] No opening continuing calibration standard for DB-225 confirmation analysis; estimate (J) 2,3,7,8-TCDF result for sample F0013.

[4] Instrument Sensitivity Check (resolution) not performed at beginning and/or end of sample sequence; estimate (J) positive results for affected congeners.

[5] No Instrument Sensitivity Check (resolution) performed with the DB-225 confirmation analysis sequence; estimate (J) positive result for 2,3,7,8,-TCDF in sample F0013.

[6] Mass Calibration/MS Resolution (PFK) not documented at beginning or end of sample sequence; estimate (J) positive results.

US EPA Approval Signature

3-14-13
Date

March 14, 2013

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square
Suite 100
Boston, MA 02109

Re: TO No. 85, Task No. 1, TDF No. 2854A
Case No. 42957, SDG No. C0101
AGAT Laboratories - Saint-Laurent, Quebec, Canada
Mohawk Tannery, Nashua, NH
Stage_4_Validation_ Manual (S4VM) for Toxic CB Congeners
Stage_2A_Validation_ Manual (S2AVM) for Total Homologues

Toxic CB Congeners and Total Homologues:

19/Soil/	C0101, C0102, C0103, C0104, C0105, C0106, C0107, C0108, C0109, C0110, C0111, C0112, C0113, C0114, C0115, C0116, C0117, C0118, C0119
1/Equipment Blank/	C0132 (from SDG C0120)

Dear Mr. Millan-Ramos:

A stage 4 manual validation was performed on the Toxic CB Congeners analytical data, and a stage 2A manual validation was performed on the Total Homologues analytical data for 19 soil samples, and one equipment blank sample collected by Sanborn, Head, and Associates for the U.S. EPA at the Mohawk Tannery Site in Nashua, NH. The samples were analyzed according to USEPA SOW CBC01.2, December 2009. The samples were validated using the criteria in the USEPA SOW CBC01.2, December 2009, and the EPA Region I's Environmental Services Assistance Team Chlorinated Biphenyl Congeners Data Validation ESAT-01-0008 (4/24/12) as specified in the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012. The data were evaluated based on the following parameters:

*	I.	Data Completeness
*	II.	Preservation and Holding Times
N/A	III.	Accuracy Check (Performance Evaluation Results)
*	IV.	Window Defining Mix
	V.	Initial and Continuing Calibrations
*	VI.	Chromatographic Resolution
	VII.	Blanks
N/A	VIII.	Matrix Spike/Matrix Spike Duplicate
*	IX.	Laboratory Control Sample
N/A	X.	Field Duplicates
	XI.	Labeled Toxics/LOC/Window Defining Congeners and Clean-Up Standards
	XII.	Sample Analysis and Identification

XIII. Sample Quantitation
* XIV. 2378-TCDD Toxicity Equivalents (TE)
* XV. Required Sample Reruns
* XVI. System Performance

* All criteria were met for this parameter.

Electronic Data Review Reports were not used for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Data validation indicated some data quality problems. Results were qualified as noted below:
Toxic CB Congeners (S4VM)
Results were qualified due to noncompliant CCV recovery, equipment blank contamination, labeled compound recovery, and noncompliant ion abundance ratios.

Total Homologues (S2AVM)
Results were qualified due to equipment blank contamination, low and high labeled compound recovery, and quantitation procedures. Please note that the non-detected Total MoCB result in samples C0118 and C0119, and non-detected Total DiCB result in sample C0118 were rejected (R) due to labeled compound recovery of less than the gross lower limit (10%).

See the attached worksheets for details. The results reported on the Data Summary Tables are usable for the site objectives with the exception of the rejected Total Homologue results as noted above for samples C0118 and C0119.

Very truly yours,

Leslie Downey
Data Validator

Louis Macri
Program Manager

Attachments: Data Summary Tables
Data Validation Worksheets
Support Documentation
Communications
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	C0101		C0102		C0103		C0104		C0105		C0106	
Location:	MHK_SS-107_ 0-.5		MHK_SS-107_ 1-2		MHK_SS-110_ 0-.5		MHK_SS-110_ 1-2		MHK_SS-116_ 0-.5		MHK_SS-116_ 1-2	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	86.0		87.6		83.9		90.0		82.2		81.1	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	23.5	EB[3]	2.3	U	57	EB[3]	2.1	U	24	EB[3]	0.70	J[4] EB[3]
PCB-81	2.2	U	2.3	U	1.0	J EB[3]	2.1	U	2.4	U	2.4	U
PCB-105	78.6	EB[3]	0.57	J EB[3]	111	EB[3]	1.0	J EB[3]	106	EB[3]	2.8	EB[3]
PCB-114	2.8	EB[3]	2.3	U	4.2	EB[3]	2.1	U	3.4	EB[3]	2.4	U
PCB-118	187		1.7	J EB[3]	330		2.9	EB[3]	245		7.3	EB[3]
PCB-123	6.4	EB[3]	2.3	U	10	EB[3]	2.1	U	6.0	EB[3]	2.4	U
PCB-126	3.9	EB[3]	2.3	U	3.6	EB[3]	2.1	U	2.4	U	2.4	U
PCB-156/157	45.2	EB[3]	0.60	J EB[3]	60	EB[3]	1.0	J EB[3]	50	EB[3]	2.0	J EB[3]
PCB-167	23.7	EB[3]	0.41	J[4] EB[3]	28	EB[3]	0.46	J EB[3]	21	EB[3]	2.4	U
PCB-169	2.0	J EB[3]	0.33	J[4] EB[3]	1.8	J EB[3]	2.1	U	1.0	J EB[3]	2.4	U
PCB-189	6.4	J[1] EB[3]	2.3	UJ[1]	6.3	J[1] EB[3]	2.1	UJ[1]	5.0	J[1] EB[3]	2.4	UJ[1]
Toxic Equivalent #	0.46	J	0.010	J	0.44	J	0.00016	J	0.045	J	0.00043	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	C0107		C0108		C0109		C0110		C0111		C0112	
Location:	MHK_SS-122_ 0-.5		MHK_SS-122_ 1-2		MHK_SS-137_ 0-.5		MHK_SS-137_ 1-2		MHK_SS-139_ 0-.5		MHK_SS-139_ 1-2	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	86.5		84.2		87.1		91.7		84.3		85.4	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	9.0	EB[3]	1.5	J EB[3]	14	EB[3]	6.4	EB[3]	26	EB[3]	11	EB[3]
PCB-81	4.8	EB[3]	2.4	U	3.3	J[4] EB[3]	0.27	J EB[3]	0.54	J EB[3]	0.37	J[4] EB[3]
PCB-105	106	EB[3]	19	EB[3]	78	EB[3]	43	EB[3]	152	EB[3]	238	
PCB-114	2.6	EB[3]	2.4	U	2.8	J[4] EB[3]	1.9	J EB[3]	4.2	EB[3]	4.6	EB[3]
PCB-118	335		81	EB[3]	161		83	EB[3]	295		577	
PCB-123	12	EB[3]	2.1	J EB[3]	5.2	EB[3]	2.4	EB[3]	11	EB[3]	10	EB[3]
PCB-126	1.3	J EB[3]	2.4	U	2.2	U	0.90	J EB[3]	3.6	EB[3]	2.2	U
PCB-156/157	134	EB[3]	24	EB[3]	72	EB[3]	27	EB[3]	131	EB[3]	4.4	U
PCB-167	62	EB[3]	10	EB[3]	33	EB[3]	13	EB[3]	55	EB[3]	2.2	U
PCB-169	2.3	U	2.4	U	0.45	J EB[3]	2.1	U	2.4	U	2.2	U
PCB-189	6.3	J[1] EB[3]	1.3	J[1] EB[3]	8.6	J[1] EB[3]	3.4	J[1] EB[3]	13	J[1] EB[3]	4.8	J[1] EB[3]
Toxic Equivalent #	0.15	J	0.0043	J	0.027	J	0.096	J	0.38	J	0.026	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	C0113		C0114		C0115		C0116		C0117		C0118	
Location:	MHK_SS-141_ 0-.5		MHK_SS-143_ 0-.5		MHK_SS-147_ 0-.5		MHK_SS-149_ 0-.5		MHK_SS-111_ 0-.5		MHK_SS-111_ 1-2	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		5		1, 5 (D)		1		1		1	
% Solids:	89.2		76.3		55.9		87.4		83.9		85.6	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	53	EB[3]	582		2540		113	EB[3]	832		2.2	J EB[3]
PCB-81	1.7	J EB[3]	14	J[4] EB[3]	64	EB[3]	3.0	EB[3]	15	EB[3]	2.3	U
PCB-105	178		775		5620		154		1600		4.9	J[4] EB[3]
PCB-114	6.5	EB[3]	60	EB[3]	249		12	EB[3]	62	EB[3]	2.3	U
PCB-118	390		4050		61200	D	818		4210		14	EB[3]
PCB-123	13	J[4] EB[3]	68	EB[3]	330		14	EB[3]	834		0.39	J EB[3]
PCB-126	2.2	U	12.3	U	3.5	U	4.2	EB[3]	32	EB[3]	2.3	U
PCB-156/157	88	EB[3]	557		1870		105	EB[3]	622		2.8	J EB[3]
PCB-167	31	EB[3]	205		671		40	EB[3]	211		1.5	J EB[3]
PCB-169	1.0	J[4] EB[3]	4.7	J[4] EB[3]	3.5	U	2.2	EB[3]	9.4	EB[3]	2.3	U
PCB-189	7.0	J[1] EB[3]	47.4	J[1, 2] EB[3]	137	J[1, 2]	9.0	J[1] EB[3]	50	J[1] EB[3]	2.3	UJ[1]
Toxic Equivalent #	0.057	J	0.38	J	2.37	J	0.53	J	3.80	J	0.00093	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congener

Sample:	**C0119**	
Location:	**MHK_SS-117_ 0-.5**	
Type:	**Field_Sample**	
Matrix:	**Soil**	
Dilution Factor:	**1**	
% Solids:	**92.1**	
Units :	**ng/Kg (dry wt.)**	
Congener	**Result**	**Flag**
PCB-77	2.1	U
PCB-81	2.1	U
PCB-105	1.6	J EB[3]
PCB-114	2.1	U
PCB-118	3.7	EB[3]
PCB-123	2.1	U
PCB-126	2.1	U
PCB-156/157	0.95	J[4] EB[3]
PCB-167	0.52	J[4] EB[3]
PCB-169	2.1	U
PCB-189	2.1	UJ[1]
Toxic Equivalent #	0.00020	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0101		C0102		C0103		C0104		C0105		C0106	
Location:	MHK_SS-107_ 0-.5		MHK_SS-107_ 1-2		MHK_SS-110_ 0-.5		MHK_SS-110_ 1-2		MHK_SS-116_ 0-.5		MHK_SS-116_ 1-2	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	86.0		87.6		83.9		90.0		82.2		81.1	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	4.8	J[1] EB[3]	ND		8.1	J[1] EB[3]	ND		5.0	J[1] EB[3]	ND	
Total DiCB	91	J[1]	ND		552	J[1]	ND		79	J[1]	ND	
Total TrCB	360	J[1]	ND		1830	J[1]	6.5	J[1]	272	J[1]	ND	
Total TeCB	56	J[1, 2] EB[3]	ND		180	J[1, 2] EB[3]	0.41	J[1] EB[3]	60	J[1, 2] EB[3]	1.2	J[1, 2] EB[3]
Total PeCB	1000	J[1] EB[3]	5.5	J[1] EB[3]	1840	J[1]	10	J[1] EB[3]	1270	J[1] EB[3]	34	J[1] EB[3]
Total HxCB	1640	J[1]	14	J[1] EB[3]	2260	J[1]	17	J[1] EB[3]	1790	J[1]	49	J[1] EB[3]
Total HpCB	1040	J[1]	3.0	J[1] EB[3]	1130	J[1]	8.3	J[1] EB[3]	986	J[1]	26	J[1] EB[3]
Total OcCB	662	J[1]	ND		620	J[1]	3.8	J[1] EB[3]	641	J[1]	11	J[1] EB[3]
Total NoCB	93	J[1] EB[3]	ND		90	J[1] EB[3]	2.4	J[1] EB[3]	100	J[1] EB[3]	ND	
DeCB	142	EB[3]	ND		167	EB[3]	1.6	J EB[3]	140	EB[3]	3.6	EB[3]
Total PCBs ^	5090	J	22.5	J	8670	J	49.9	J	5340	J	125	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

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^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0107		C0108		C0109		C0110		C0111		C0112	
Location:	MHK_SS-122_ 0-.5		MHK_SS-122_ 1-2		MHK_SS-137_ 0-.5		MHK_SS-137_ 1-2		MHK_SS-139_ 0-.5		MHK_SS-139_ 1-2	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	86.5		84.2		87.1		91.7		84.3		85.4	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	ND		ND		8.2	J[1] EB[3]	4.5	J[1] EB[3]	13.2	J[1] EB[3]	ND	
Total DiCB	159	J[1]	ND		306	J[1]	100	J[1, 2]	1080	J[1, 2]	50	J[1]
Total TrCB	578	J[1]	69	J[1]	665	J[1]	216	J[1]	991	J[1]	108	J[1]
Total TeCB	56	J[1, 2] EB[3]	7.0	J[1, 2] EB[3]	65	J[1, 2] EB[3]	41	J[1, 2] EB[3]	100	J[1, 2] EB[3]	82	J[1, 2] EB[3]
Total PeCB	2710	J[1]	621	J[1] EB[3]	1820	J[1]	847	J[1] EB[3]	2630	J[1]	4930	J[1]
Total HxCB	5040	J[1]	988	J[1]	3550	J[1]	1280	J[1]	5200	J[1]	ND	
Total HpCB	828	J[1]	190	J[1]	1680	J[1]	675	J[1]	3350	J[1]	816	J[1]
Total OcCB	183	J[1]	52	J[1] EB[3]	672	J[1]	231	J[1]	1770	J[1]	404	J[1]
Total NoCB	16	J[1] EB[3]	23	J[1] EB[3]	69	J[1] EB[3]	19	J[1] EB[3]	115	J[1] EB[3]	27	J[1] EB[3]
DeCB	27	EB[3]	16	EB[3]	85	EB[3]	22	EB[3]	87.0	EB[3]	33	EB[3]
Total PCBs ^	9610	J	1970	J	8910	J	3440	J	15300	J	6450	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

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ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0113		C0114		C0115		C0116		C0117		C0118	
Location:	MHK_SS-141_ 0-.5		MHK_SS-143_ 0-.5		MHK_SS-147_ 0-.5		MHK_SS-149_ 0-.5		MHK_SS-111_ 0-.5		MHK_SS-111_ 1-2	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		5		1		1		1		1	
% Solids:	89.2		76.3		55.9		87.4		83.9		85.6	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	19	J[1] EB[3]	152	J[1] EB[3]	223	J[1] EB[3]	22.6	J[1] EB[3]	91.2	J[1] EB[3]	R[4]	
Total DiCB	2270	J[1, 2]	6390	J[1, 2]	42500	J[1, 2]	1680	J[1]	13400	J[1, 2]	R[4]	
Total TrCB	2720	J[1]	20600	J[1]	65900	J[1]	4390	J[1]	21100	J[1]	40.3	J[1]
Total TeCB	223	J[1, 2] EB[3]	2410	J[1, 2]	8920	J[1, 2]	463	J[1, 2]	2460	J[1, 2]	5.0	J[1, 2] EB[3]
Total PeCB	2660	J[1]	23400	J[1]	84100	J[1]	4630	J[1]	22600	J[1]	60.0	J[1] EB[3]
Total HxCB	2740	J[1]	20600	J[1]	60700	J[1]	3900	J[1]	18700	J[1]	72.1	J[1] EB[3]
Total HpCB	1370	J[1]	9410	J[1]	25900	J[1, 2]	1790	J[1, 2]	9300	J[1]	43.7	J[1] EB[3]
Total OcCB	862	J[1]	4310	J[1]	12000	J[1, 2]	805	J[1]	6540	J[1]	34.2	J[1] EB[3]
Total NoCB	100	J[1] EB[3]	471	J[1]	1150	J[1, 2]	89.1	J[1] EB[3]	671	J[1]	ND	
DeCB	147	EB[3]	708		1440	J[2]	133	EB[3]	1150		5.0	EB[3]
Total PCBs ^	13100	J	88300	J	303000	J	17900	J	96000	J	260	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

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ND - Not detected; detection limit is not applicable to Total CB Homologues.

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[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

Lab: AGAT Laboratories **SDG**: C0101 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	**C0119**	
Location:	**MHK_SS-117_ 0-.5**	
Type:	**Field_Sample**	
Matrix:	**Soil**	
Dilution Factor:	**1**	
% Solids:	**92.1**	
Units :	**ng/Kg (dry wt.)**	
Congener	**Result**	**Flag**
Total MoCB	R[4]	
Total DiCB	ND	
Total TrCB	5.1	J[1]
Total TeCB	ND	
Total PeCB	9.0	J[1] EB[3]
Total HxCB	17.7	J[1] EB[3]
Total HpCB	8.6	J[1] EB[3]
Total OcCB	ND	
Total NoCB	ND	
DeCB	ND	
Total PCBs ^	40.4	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

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ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Labeled compound recovery less than 10%; Reject (R) the non-detect for the affected homologue group.

US EPA Approval Signature

3-29-13
Date

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square
Suite 100
Boston, MA 02109

March 29, 2013

Re: TO No. 85, Task No. 1, TDF No. 2857B
Case No. 42957, SDG No. C0120
AGAT Laboratories - Saint-Laurent, Quebec, Canada
Mohawk Tannery, Nashua, NH
Stage_4_Validation_ Manual (S4VM) for Toxic CB Congeners
Stage_2A_Validation_ Manual (S2AVM) for Total Homologues

Toxic CB Congeners and Total Homologues:

12/Soil/	C0120, C0121, C0122, C0123, C0124, C0125, C0126, C0127, C0128, C0129, C0130, C0131 (Field duplicate pair: C0123/C0131)
1/Equipment Blank/	C0132
1/PE/	C0133 (C0033)

Dear Mr. Millan-Ramos:

A stage 4 manual validation was performed on the Toxic CB Congeners analytical data, and a stage 2A manual validation was performed on the Total Homologues analytical data for 12 soil samples, one equipment blank, and one PE sample collected by Sanborn, Head, and Associates for the U.S. EPA at the Mohawk Tannery Site in Nashua, NH. The samples were analyzed according to USEPA SOW CBC01.2, December 2009. The samples were validated using the criteria in the USEPA SOW CBC01.2, December 2009, and the EPA Region I's Environmental Services Assistance Team Chlorinated Biphenyl Congeners Data Validation ESAT-01-0008 (4/24/12) as specified in the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012. The data were evaluated based on the following parameters:

*	I.	Data Completeness
*	II.	Preservation and Holding Times
*	III.	Accuracy Check (Performance Evaluation Results)
*	IV.	Window Defining Mix
	V.	Initial and Continuing Calibrations
*	VI.	Chromatographic Resolution
	VII.	Blanks
N/A	VIII.	Matrix Spike/Matrix Spike Duplicate
*	IX.	Laboratory Control Sample
*	X.	Field Duplicates
	XI.	Labeled Toxics/LOC/Window Defining Congeners and Clean-Up Standards

XII. Sample Analysis and Identification
XIII. Sample Quantitation
* XIV. 2378-TCDD Toxicity Equivalents (TE)
* XV. Required Sample Reruns
* XVI. System Performance

* All criteria were met for this parameter.

Electronic Data Review Reports were not used for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Data validation indicated some data quality problems. Results were qualified as noted below:
Toxic CB Congeners (S4VM)
Results were qualified due to noncompliant CCV recovery, equipment blank contamination, labeled compound recovery, noncompliant relative retention times, and noncompliant ion abundance ratios.

Total Homologues (S2AVM)
Results were qualified due to equipment blank contamination, low and high labeled compound recovery, and quantitation procedures.

See the attached worksheets for details. The results reported on the Data Summary Tables are usable for the site objectives.

Very truly yours,

Leslie Downey
Data Validator

Louis Macri
Program Manager

Attachments: Data Summary Tables
Data Validation Worksheets
Support Documentation
Communications
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: C0120 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congeners

Sample:	C0120		C0121		C0122		C0123		C0124		C0125	
Location:	MHK_SS-117_ 1-2		MHK_SS-138_ 0-.5		MHK_SS-138_ 1-2		MHK_SS-140_ 0-.5		MHK_SS-140_ 1-2		MHK_SS-145_ 0-.5	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		5		5		1		1		1	
% Solids:	90.2		73.5		75.3		85.2		87.6		78.6	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	2.1	U	244		240		32	EB[3]	1.2	J EB[3]	535	
PCB-81	2.1	U	201	J[5]	263	J[5]	1.6	J EB[3]	0.96	J[5] EB[3]	9.3	EB[3]
PCB-105	2.1	U	6630		4970		461		18	EB[3]	1220	
PCB-114	2.1	U	105		53.2	EB[3]	14	EB[3]	2.2	U	56	EB[3]
PCB-118	0.79	J EB[3]	11400		13700		864		38	EB[3]	3560	
PCB-123	2.1	U	301		244		33	EB[3]	1.5	J EB[3]	69	EB[3]
PCB-126	2.1	U	21.6	J[4] EB[3]	12.7	U	2.2	U	0.26	J[4] EB[3]	2.5	U
PCB-156/157	4.2	U	4340		3280		548		23	EB[3]	410	
PCB-167	2.1	U	1400		1520		257		11	EB[3]	143	
PCB-169	2.1	U	12.8	U	12.7	U	2.2	U	2.2	U	2.5	U
PCB-189	2.1	U	154	J[1]	164		2.2	UJ[1]	1.7	J[1] EB[3]	2.5	UJ[1]
Toxic Equivalent #	0.000024	J	2.97	J	0.821	J	0.0690	J	0.0292	J	0.220	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

[5] - Relative retention time outside QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0120 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congeners

Sample:	C0126		C0127		C0128		C0129		C0130		C0131	
Location:	MHK_SS-151_ 0-.5		MHK_SS-152_ 0-.5		MHK_SS-153_ 0-.5		MHK_SS-154_ 0-.5		MHK_SS-155_ 0-.5		OW-401	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	91.8		89.9		87.2		90.3		88.8		84.8	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
PCB-77	2.1	J[4] EB[3]	2.2	U	30	EB[3]	3.5	EB[3]	7.5	EB[3]	26	EB[3]
PCB-81	2.0	U	2.2	U	2.2	U	2.2	U	2.2	U	0.94	J EB[3]
PCB-105	5.1	EB[3]	1.8	J EB[3]	67	EB[3]	14	EB[3]	22	EB[3]	422	
PCB-114	2.0	U	2.2	U	2.7	EB[3]	2.2	U	2.2	U	12	EB[3]
PCB-118	13	EB[3]	5.5	EB[3]	179		37	EB[3]	64	EB[3]	761	
PCB-123	2.0	U	2.2	U	5.5	EB[3]	2.0	J EB[3]	2.5	EB[3]	34	EB[3]
PCB-126	2.0	U	2.2	U	2.7	EB[3]	2.2	U	0.97	J EB[3]	2.3	U
PCB-156/157	2.3	J EB[3]	1.8	J[4] EB[3]	40	EB[3]	14	EB[3]	24	EB[3]	546	
PCB-167	0.96	J EB[3]	1.1	J[4] EB[3]	16	EB[3]	8.7	EB[3]	11	EB[3]	263	
PCB-169	2.0	U	2.2	U	1.2	J[4] EB[3]	0.82	J EB[3]	2.2	U	2.9	EB[3]
PCB-189	2.0	UJ[1]	2.2	UJ[1]	4.1	J[1] EB[3]	2.6	J[1] EB[3]	2.6	J[1] EB[3]	2.3	UJ[1]
Toxic Equivalent #	0.00085	J	0.00031	J	0.318	J	0.0273	J	0.102	J	0.151	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

[5] - Relative retention time outside QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0120 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Toxic CB Congeners

Sample:	**C0132**	
Location:	**EQUIP BLANK**	
Type:	**Field_Blank**	
Matrix:	**Water**	
Dilution Factor:	**1**	
% Solids:	**NA**	
Units :	**pg/L**	
Congener	**Result**	**Flag**
PCB-77	12	J
PCB-81	8.3	J
PCB-105	13	J[4]
PCB-114	8.1	J
PCB-118	13	J
PCB-123	8.1	J
PCB-126	9.5	J
PCB-156/157	17	J[4]
PCB-167	8.8	J[4]
PCB-169	8.3	J
PCB-189	7.7	J
Toxic Equivalent #	1.21	J

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The CB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

- The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include CRQL values.

[1] - CCV recovery outside of QC limits; Estimate (J, UJ) the affected analyte.

[2] - Labeled compound recovery outside of QC limits; Estimate (J) the affected analyte.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

[4] - Ion abundance ratio outside of QC limits; Estimate (J) the affected analyte.

[5] - Relative retention time outside QC limits; Estimate (J) the affected analyte.

Lab: AGAT Laboratories **SDG**: C0120 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0120		C0121		C0122		C0123		C0124		C0125	
Location:	MHK_SS-117_ 1-2		MHK_SS-138_ 0-.5		MHK_SS-138_ 1-2		MHK_SS-140_ 0-.5		MHK_SS-140_ 1-2		MHK_SS-145_ 0-.5	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		5		5		1		1		1	
% Solids:	90.2		73.5		75.3		85.2		87.6		78.6	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	2.4	J[1] EB[3]	132	J[1] EB[3]	88.5	J[1] EB[3]	16.1	J[1] EB[3]	2.7	J[1] EB[3]	73.1	J[1] EB[3]
Total DiCB	ND		949	J[1,2]	1990	J[1,2]	902	J[1,2]	ND		8580	J[1,2]
Total TrCB	ND		4240	J[1]	2850	J[1]	836	J[1]	17.3	J[1]	13900	J[1]
Total TeCB	ND		1790	J[1,2]	2160	J[1,2]	148	J[1,2] EB[3]	4.8	J[1,2] EB[3]	2490	J[1,2]
Total PeCB	2.9	J[1] EB[3]	129000	J[1]	188000	J[1]	12500	J[1]	456	J[1] EB[3]	23900	J[1]
Total HxCB	ND		130000	J[1]	144000	J[1]	23500	J[1]	846	J[1]	22300	J[1,2]
Total HpCB	63.8	J[1] EB[3]	22600	J[1,2]	1190000	J[1,2]	5160	J[1,2]	227	J[1,2]	6140	J[1,2]
Total OcCB	1700	J[1]	23900	J[1]	4050	J[1]	1450	J[1]	11.5	J[1,2] EB[3]	2870	J[1]
Total NoCB	ND		137000	J[1,2]	382	J[1,2]	76.1	J[1,2] EB[3]	4.8	J[1] EB[3]	287	J[1]
DeCB	1.6	J EB[3]	453		600		119	EB[3]	8.0	J[2] EB[3]	304	
Total PCBs ^	1770	J	450000	J	1530000	J	44700	J	1580	J	80800	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

J - The DeCB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

Lab: AGAT Laboratories **SDG**: C0120 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	C0126		C0127		C0128		C0129		C0130		C0131	
Location:	MHK_SS-151_ 0-.5		MHK_SS-152_ 0-.5		MHK_SS-153_ 0-.5		MHK_SS-154_ 0-.5		MHK_SS-155_ 0-.5		OW-401	
Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate	
Matrix:	Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor:	1		1		1		1		1		1	
% Solids:	91.8		89.9		87.2		90.3		88.8		84.8	
Units :	ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)		ng/Kg (dry wt.)	
Congener	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**	**Result**	**Flag**
Total MoCB	4.9	J[1] EB[3]	ND		7.1	J[1] EB[3]	1.0	J[1] EB[3]	4.7	J[1] EB[3]	12.7	J[1] EB[3]
Total DiCB	52.7	J[1]	ND		324	J[1]	10.8	J[1]	372	J[1,2]	837	J[1,2]
Total TrCB	51.4	J[1]	ND		1200	J[1]	50.6	J[1]	556	J[1]	712	J[1]
Total TeCB	6.9	J[1] EB[3]	ND		97.7	J[1,2] EB[3]	8.7	J[1,2] EB[3]	37.2	J[1,2] EB[3]	108	J[1,2] EB[3]
Total PeCB	61.5	J[1] EB[3]	31.5	J[1] EB[3]	982	J[1] EB[3]	220	J[1] EB[3]	534	J[1] EB[3]	12200	J[1]
Total HxCB	70.9	J[1] EB[3]	54.8	J[1] EB[3]	1380	J[1]	524	J[1] EB[3]	920	J[1]	23800	J[1]
Total HpCB	2.8	J[1,2] EB[3]	14.2	J[1] EB[3]	718	J[1]	401	J[1]	437	J[1]	5090	J[1]
Total OcCB	17.1	J[1,2] EB[3]	5.3	J[1] EB[3]	445	J[1]	210	J[1]	209	J[1]	1520	J[1]
Total NoCB	4.8	J[1] EB[3]	3.5	J[1] EB[3]	228	J[1]	33.3	J[1] EB[3]	37.6	J[1] EB[3]	81.5	J[1,2] EB[3]
DeCB	4.7	EB[3]	4.3	EB[3]	151	EB[3]	51.8	EB[3]	79.7	EB[3]	99.1	EB[3]
Total PCBs ^	278	J	114	J	5530	J	1510	J	3190	J	44500	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

J - The DeCB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

Lab: AGAT Laboratories **SDG**: C0120 **Case**: 42957 **SOW**: CBC01.2 **Analysis**: Total CB Homologues

Sample:	**C0132**	
Location:	**EQUIP BLANK**	
Type:	**Field_Blank**	
Matrix:	**Water**	
Dilution Factor:	**1**	
% Solids:	**NA**	
Units :	**pg/L**	
Congener	**Result**	**Flag**
Total MoCB	40.6	J[1,2]
Total DiCB	ND	
Total TrCB	ND	
Total TeCB	23.2	J[1,2]
Total PeCB	106	J[1]
Total HxCB	55.0	J[1]
Total HpCB	7.7	J[1]
Total OcCB	7.7	J[1]
Total NoCB	15.3	J[1]
DeCB	15.5	J
Total PCBs ^	271	J

S2AVM DATA VALIDATION QUALIFIER COMMENTS:

J - The DeCB congener concentrations reported by the laboratory below the CRQL are flagged (J) on the Data Summary Table as estimated values with no superscripts.

^ - Total PCBs are the sum of the total homologues. The Total PCB values are estimated (J) when any individual homologue group is estimated.

ND - Not detected; detection limit is not applicable to Total CB Homologues.

[1] - The results reported for the Total MoCBs through NoCBs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[2] - Labeled compound recovery outside QC limits; Estimate (J) the positive results for the affected homologue group.

[3] - Equipment blank contamination; The affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples, as evidenced by the aqueous equipment blank contamination.

US EPA Approval Signature

3-11-13
Date

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square
Suite 100
Boston, MA 02109

March 8, 2013

Re: TO No. 85, Task No. 1, TDF No. 2855A
Case No. 42957, SDG No. F0101
AGAT Laboratories - Saint-Laurent, Quebec, Canada
Mohawk Tannery, Nashua, NH
Stage_4_Validation_ Manual (S4VM)

Dioxin/Furan:	19/Soil/	F0101, F0102, F0103, F0104, F0105, F0106, F0107, F0108, F0109, F0110, F0111, F0112, F0113, F0114, F0115, F0116, F0117, F0118, F0119
	1/Equipment Blank/	F0132 (From SDG F0120)

Dear Mr. Millan-Ramos:

A stage 4 manual validation was performed on the dioxin/furan analytical data for nineteen soil samples and one aqueous equipment blank sample collected by Sanborn, Head, and Associates for the U.S. EPA at the Mohawk Tannery Site in Nashua, NH. The samples were analyzed according to USEPA SOW DLM02.2, December 2009. The samples were validated using the criteria in the USEPA SOW DLM02.2, December 2009, USEPA CLP National Functional Guidelines for CDDs and CDFs Data Review, and the EPA Region I's Environmental Services Assistance Team Dioxin/Furan Data Validation SOP ESAT-01-0007 (4/23/12) as specified in the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012. The data were evaluated based on the following parameters:

*	I.	Data Completeness
*	II.	Preservation and Holding Times
NA	III.	Accuracy Check (Performance Evaluation Results)
*	IV.	Window Defining Mix
*	V.	Initial and Continuing Calibrations
*	VI.	Chromatographic Resolution
	VII.	Blanks
*	VIII.	Laboratory Control Sample
NA	IX.	Field Duplicates
*	X.	Labeled Compounds and Clean-Up Standard
*	XI.	Identification Criteria
*	XII.	Sample Quantitation
*	XIII.	2378-TCDD Toxicity Equivalents (TE)
	XIV.	Dilutions, Reruns, and Second Column Confirmation
*	XV.	System Performance

* All criteria were met for this parameter.

NA - Not Applicable

Stage 2B Electronic Data Review Reports were not evaluated for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Data validation indicated some data quality problems. Results were qualified due to method and equipment blank contamination, and results reported above the calibration range. The results reported on the Data Summary Tables are usable for the site objectives.

Sincerely,

Robert Peary
Sr. Chemist

Louis Macri
Program Manager

Attachments: Data Summary Tables
Data Validation Worksheets
Support Documentation
Communications
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0101 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0101			F0102			F0103			F0104		
Sample Location:	MHK_SS-107_0-.5			MHK_SS-107_1-2			MHK_SS-110_0-.5			MHK_SS-110_1-2		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	85.94			85.69			82.95			89.17		
Dilution Factor:	1			1			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD		0.10	U		0.07	U	0.24		J		0.05	U
2,3,7,8-TCDF	2.6				0.07	U	3.9				0.04	U
1,2,3,7,8-PeCDF	0.58		J		0.08	U	0.56		J		0.05	U
1,2,3,7,8-PeCDD	0.33		J		0.06	U	0.80		J		0.04	U
2,3,4,7,8-PeCDF	0.90		J		0.07	U	1.1		J		0.04	U
1,2,3,4,7,8-HxCDF	1.6		J		0.04	U	3.0		J	0.037		J
1,2,3,6,7,8-HxCDF	0.61		J		0.04	U	1.3		J		0.03	U
1,2,3,4,7,8-HxCDD	0.54		J		0.06	U	2.2		J		0.07	U
1,2,3,6,7,8-HxCDD	1.5		J		0.06	U	8.6				0.06	U
1,2,3,7,8,9-HxCDD	1.3		J		0.06	U	5.8		J		0.07	U
2,3,4,6,7,8-HxCDF	0.87		J		0.04	U	2.1		J		0.03	U
1,2,3,7,8,9-HxCDF		0.15	U		0.05	U		0.12	U		0.04	U
1,2,3,4,6,7,8-HpCDF	10.6			0.20		J EB[2]	56.7			0.16		J EB[2]
1,2,3,4,6,7,8-HpCDD	39.7			0.65		J EB[2]	266			0.53		J EB[2]
1,2,3,4,7,8,9-HpCDF	0.33		J		0.08	U	1.6		J		0.04	U
OCDD	327			5.0		J EB[2]	2270			4.2		J EB[2]
OCDF	16.0		EB[2]	0.23		J EB[2]	92.4			0.20		J EB[2]
Total TCDDs	2.1		J		0.03	UJ	4.1		J		0.03	UJ
Total PeCDDs	4.9		J		0.10	UJ[1]	9.8		J	0.17		J
Total HxCDDs	14.7		J EB[2]	0.15		J EB[2]	66.9		J	0.26		J EB[2]
Total HpCDDs	73.6		J	1.2		J EB[2]	477		J	1.0		J EB[2]
Total TCDFs	19.5		J	0.16		J	28.0		J		0.07	UJ[1]
Total PeCDFs	13.8		J		0.1	UJ	21.2		J		0.1	UJ
Total HxCDFs	13.5		J EB[2]	0.07		J EB[2]	50.9		J	0.13		J EB[2]
Total HpCDFs	23.3		J	0.34		J EB[2]	146		J	0.34		J EB[2]
Toxic Equivalent #	2.13		J	0.0101		J	8.03		J	0.0119		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as “EMPC” in the Result column.

= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

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[3] Concentration above calibration range; Estimate (J) positive results for OCDD.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0101 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0105			F0106			F0107			F0108		
Sample Location:	MHK_SS-116_0-.5			MHK_SS-116_1-2			MHK_SS-122_0-.5			MHK_SS-122_1-2		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	82.92			81.57			85.63			84.89		
Dilution Factor:	1			1			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD		0.08	U		0.07	U	0.95		J		0.09	U
2,3,7,8-TCDF	1.3			0.09		J	0.88		J	0.20		J
1,2,3,7,8-PeCDF	0.28		J		0.07	U	0.20		J	0.13		J
1,2,3,7,8-PeCDD	0.16		J		0.06	U	2.8		J	0.27		J
2,3,4,7,8-PeCDF	0.45		J		0.06	U	0.75		J	0.12		J
1,2,3,4,7,8-HxCDF	0.59		J	0.08		J	6.0			0.59		J
1,2,3,6,7,8-HxCDF	0.22		J		0.04	U	4.4		J	0.39		J
1,2,3,4,7,8-HxCDD	0.15		J		0.06	U	5.0		J	0.40		J
1,2,3,6,7,8-HxCDD	0.34		J		0.06	U	48.9			4.4		J
1,2,3,7,8,9-HxCDD	0.30		J		0.06	U	19.0			1.7		J
2,3,4,6,7,8-HxCDF	0.36		J		0.04	U	20.2			1.4		J
1,2,3,7,8,9-HxCDF		0.15	U		0.06	U	0.21		J		0.12	U
1,2,3,4,6,7,8-HpCDF	2.9		J EB[2]	0.24		J EB[2]	524			39.6		
1,2,3,4,6,7,8-HpCDD	9.1		EB[2]	0.72		J EB[2]	2110			174		
1,2,3,4,7,8,9-HpCDF	0.16		J		0.07	U	15.9			1.3		J
OCDD	74.7		EB[2]	6.8		J EB[2]	28800		J[3]	2620		
OCDF	3.9		J EB[2]	0.58		J EB[2]	1600			163		
Total TCDDs	1.2		J		0.03	UJ	6.7		J	0.47		J
Total PeCDDs	2.0		J		0.12	UJ[1]	26.9		J	2.5		J
Total HxCDDs	4.2		J EB[2]	0.44		J EB[2]	275		J	22.3		J EB[2]
Total HpCDDs	17.2		J EB[2]	1.5		J EB[2]	3670		J	301		J
Total TCDFs	10.9		J	1.1		J	12.3		J	0.96		J
Total PeCDFs	5.9		J	0.34		J EB[2]	37.0		J	3.0		J
Total HxCDFs	4.5		J EB[2]	0.31		J EB[2]	476		J	33.5		J
Total HpCDFs	6.1		J EB[2]	0.48		J EB[2]	1840		J	138		J
Toxic Equivalent #	0.775		J	0.0288		J	50.1		J	4.20		J

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[3] Concentration above calibration range; Estimate (J) positive results for OCDD.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0101 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0109			F0110			F0111			F0112		
Sample Location:	MHK_SS-137_0-.5			MHK_SS-137_1-2			MHK_SS-139_0-.5			MHK_SS-139_1-2		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	85.32			91.99			83.38			86.13		
Dilution Factor:	1, 2(D)			1			1, 2(D)			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	5.5			0.78		J	1.8			0.69		J
2,3,7,8-TCDF	1.6			0.44		J	3.5			0.87		J
1,2,3,7,8-PeCDF	1.4		J	0.23		J	1.1		J	0.17		J
1,2,3,7,8-PeCDD	14.1			2.0		J	8.7			1.3		J
2,3,4,7,8-PeCDF	2.5		J	0.47		J	2.8		J	0.39		J
1,2,3,4,7,8-HxCDF	20.7			3.3		J	22.6			2.8		J
1,2,3,6,7,8-HxCDF	15.5			2.3		J	17.0			1.7		J
1,2,3,4,7,8-HxCDD	20.7			2.5		J	17.2			1.4		J
1,2,3,6,7,8-HxCDD	176			27.6			172			21.0		
1,2,3,7,8,9-HxCDD	74.6			10.3			61.1			6.4		
2,3,4,6,7,8-HxCDF	62.3			9.1			64.4			7.3		
1,2,3,7,8,9-HxCDF	0.52		J		0.19	U	3.8		J		0.18	U
1,2,3,4,6,7,8-HpCDF	1600			251			1670			212		
1,2,3,4,6,7,8-HpCDD	8350		D	1230			7080		D	837		
1,2,3,4,7,8,9-HpCDF	59.6			9.1			55.3			6.1		
OCDD	117000		J[3] D	21400		J[3]	101000		J[3] D	12600		J[3]
OCDF	6960		D	940			4820		D	574		
Total TCDDs	35.4		J	5.9		J	15.7		J	4.6		J
Total PeCDDs	120		J	18.1		J	84.7		J	14.0		J
Total HxCDDs	968		J	143		J	826		J	100		J
Total HpCDDs	13300		J	2130		J	12700		J	1470		J
Total TCDFs	36.0		J	8.7		J	42.7		J	8.7		J
Total PeCDFs	126		J	20.0		J	133		J	13.8		J
Total HxCDFs	1470		J	210		J	1320		J	196		J
Total HpCDFs	5840		J	907		J	5420		J	720		J
Toxic Equivalent #	195		J	30.1		J	167		J	20.8		J

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[3] Concentration above calibration range; Estimate (J) positive results for OCDD.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0101 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0113			F0114			F0115			F0116		
Sample Location:	MHK_SS-141_0-.5			MHK_SS-143_0-.5			MHK_SS-147_0-.5			MHK_SS-149_0-.5		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	89.11			77.04			50.57			87.07		
Dilution Factor:	1			1			1, 2(D)			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.34		J	1.9			8.0			0.63		J
2,3,7,8-TCDF	10.5			16.3			59.7			6.2		
1,2,3,7,8-PeCDF	1.7		J	2.1		J	7.1		J	0.65		J
1,2,3,7,8-PeCDD	1.3		J	5.5		J	31.3			1.4		J
2,3,4,7,8-PeCDF	1.7		J	4.3		J	14.4			1.1		J
1,2,3,4,7,8-HxCDF	3.8		J	18.0			84.8			4.6		J
1,2,3,6,7,8-HxCDF	1.7		J	8.7			42.8			2.0		J
1,2,3,4,7,8-HxCDD	2.9		J	15.6			95.2			4.5		J
1,2,3,6,7,8-HxCDD	12.6			55.7			383			20.0		
1,2,3,7,8,9-HxCDD	8.8			41.6			255			11.4		
2,3,4,6,7,8-HxCDF	3.3		J	14.9			77.4			3.7		J
1,2,3,7,8,9-HxCDF		0.16	U	0.59		J	1.5		J		0.33	U
1,2,3,4,6,7,8-HpCDF	81.1			486			2470			139		
1,2,3,4,6,7,8-HpCDD	433			1740			10000		D	662		
1,2,3,4,7,8,9-HpCDF	2.8		J	13.8			88.5			4.3		J
OCDD	3700			18600		J[3]	85700		J[3] D	6510		J[3]
OCDF	154			716			4430			635		
Total TCDDs	3.5		J	21.2		J	68.8		J	5.4		J
Total PeCDDs	13.5		J	68.2		J	254		J	36.9		J
Total HxCDDs	93.1		J	490		J	2720		J	156		J
Total HpCDDs	766		J	3320		J	21300		J	1200		J
Total TCDFs	67.0		J	164		J	460		J	31.1		J
Total PeCDFs	28.6		J	130		J	531		J	27.6		J
Total HxCDFs	77.3		J	443		J	2220		J	123		J
Total HpCDFs	220		J	1200		J	6580		J	398		J
Toxic Equivalent #	12.9		J	54.1		J	296		J	17.8		J

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[3] Concentration above calibration range; Estimate (J) positive results for OCDD.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0101 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0117			F0118			F0119		
Sample Location:	MHK_SS-111_0-.5			MHK_SS-111_1-2			MHK_SS-117_0-.5		
Sample Type:	Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low		
% Solids:	84.63			85.64			91.62		
Dilution Factor:	1			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	2.1				0.09	U		0.06	U
2,3,7,8-TCDF	28.2			0.12		J		0.06	U
1,2,3,7,8-PeCDF	4.8		J	0.07		J		0.07	U
1,2,3,7,8-PeCDD	5.9				0.09	U		0.13	U
2,3,4,7,8-PeCDF	7.0				0.07	U		0.06	U
1,2,3,4,7,8-HxCDF	17.9				0.13	U		0.09	U
1,2,3,6,7,8-HxCDF	8.8				0.13	U		0.08	U
1,2,3,4,7,8-HxCDD	16.2				0.13	U		0.18	U
1,2,3,6,7,8-HxCDD	57.8				0.12	U		0.16	U
1,2,3,7,8,9-HxCDD	42.2			0.21		J		0.17	U
2,3,4,6,7,8-HxCDF	14.0				0.12	U		0.09	U
1,2,3,7,8,9-HxCDF	0.61		J		0.14	U		0.11	U
1,2,3,4,6,7,8-HpCDF	378			1.37		J EB[2]	0.36		J EB[2]
1,2,3,4,6,7,8-HpCDD	1920			5.9		EB[2]	1.7		J EB[2]
1,2,3,4,7,8,9-HpCDF	11.8				0.24	U		0.14	U
OCDD	210000		J[3]	44.5		EB[2]	20.1		EB[2]
OCDF	676			2.2		J EB[2]	0.94		J EB[2]
Total TCDDs	28.2		J	0.07		J		0.03	UJ
Total PeCDDs	93.0		J	0.27		J	0.09		J
Total HxCDDs	469		J	1.1		J EB[2]	0.67		J EB[2]
Total HpCDDs	3550		J	10.3		J EB[2]	2.9		J EB[2]
Total TCDFs	194		J	1.0		J EB[2]	0.08		J EB[2]
Total PeCDFs	152		J	0.56		J EB[2]	0.07		J EB[2]
Total HxCDFs	363		J	1.4		J EB[2]	0.52		J EB[2]
Total HpCDFs	1000		J	3.4		J EB[2]	0.94		J EB[2]
Toxic Equivalent #	115		J	0.122		J	0.0269		J

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[2] Equipment blank contamination; the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples as evidenced by the aqueous equipment blank contamination.

[3] Concentration above calibration range; Estimate (J) positive results for OCDD.

US EPA Approval Signature

3-28-13
Date

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square
Suite 100
Boston, MA 02109

March 28, 2013

Re: TO No. 85, Task No. 1, TDF No. 2858A
Case No. 42957, SDG No. F0120
AGAT Laboratories - Saint-Laurent, Quebec, Canada
Mohawk Tannery, Nashua, NH
Stage_4_Validation_ Manual (S4VM)

Dioxin/Furan:	12/Soil/	F0120, F0121, F0122, F0123, F0124, F0125, F0126, F0127, F0128, F0129, F0130, F0131 (Field duplicate pair: F0123/ F0131)
	1/Equipment Blank/	F0132
	2/PE/	F0133 (PC1010), F0134 (DS00324)

Dear Mr. Millan-Ramos:

A stage 4 manual validation was performed on the dioxin/furan analytical data for twelve soil samples, one equipment blank sample, and two performance evaluation samples collected by Sanborn, Head, and Associates for the U.S. EPA at the Mohawk Tannery Site in Nashua, NH. The samples were analyzed according to USEPA SOW DLM02.2, December 2009. The samples were validated using the criteria in the USEPA SOW DLM02.2, December 2009, USEPA CLP National Functional Guidelines for CDDs and CDFs Data Review, and the EPA Region I's Environmental Services Assistance Team Dioxin/Furan Data Validation SOP ESAT-01-0007 (4/23/12) as specified in the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012. The data were evaluated based on the following parameters:

*	I.	Data Completeness
*	II.	Preservation and Holding Times
	III.	Accuracy Check (Performance Evaluation Results)
*	IV.	Window Defining Mix
*	V.	Initial and Continuing Calibrations
*	VI.	Chromatographic Resolution
	VII.	Blanks
*	VIII.	Laboratory Control Sample
*	IX.	Field Duplicates
	X.	Labeled Compounds and Clean-Up Standard
	XI.	Identification Criteria
*	XII.	Sample Quantitation
*	XIII.	2378-TCDD Toxicity Equivalents (TE)
	XIV.	Dilutions, Reruns, and Second Column Confirmation
*	XV.	System Performance

* All criteria were met for this parameter.

Stage 2B Electronic Data Review Reports were not evaluated for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

Two single-blind PE samples (fortified native soil F0134 (DS00324) and native soil blank F0133 (PC1010)) were analyzed by the laboratory. All analytes were scored "Within Limits" with the following exception. 1234678-HpCDF in sample F0134 was scored "Warning Low". The positive 1234678-HpCDF results in all of the soil samples were estimated (J).

Data validation indicated some data quality problems. Results were qualified due to method and equipment blank contamination, results reported above the calibration range, relative retention time outside criteria, low labeled compound recovery, and a "Warning Low" PE score. See the attached worksheets for details. The results reported on the Data Summary Tables are usable for the site objectives.

Very truly yours,

Robert Peary
Sr. Chemist

Louis Macri
Program Manager

Attachments: Data Summary Tables
Data Validation Worksheets
Support Documentation
PE Score Results
Communications
Field Notes
CSF Audit

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0120 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0120			F0121			F0122			F0123		
Sample Location:	MHK_SS-117_1-2			MHK_SS-138_0-0.5			MHK_SS-138_1-2			MHK_SS-140_0-0.5		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	88.43			73.38			73.70			83.21		
Dilution Factor:	1			1, 20 (D)			1, 20 (D)			1, 10 (D)		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD		0.02	U	52.9			48.0			8.1		
2,3,7,8-TCDF @		0.02	U	5.5			3.9			2.2		
1,2,3,7,8-PeCDF		0.02	U	3.3		J	4.5		J	2.1		J
1,2,3,7,8-PeCDD		0.02	U	88.3			63.1			31.1		
2,3,4,7,8-PeCDF		0.02	U	15.3			12.5			4.0		J
1,2,3,4,7,8-HxCDF		0.02	U	174			153			43.7		
1,2,3,6,7,8-HxCDF		0.02	U	93.0			83.0			30.2		
1,2,3,4,7,8-HxCDD		0.02	U	108			88.1			49.3		
1,2,3,6,7,8-HxCDD		0.02	U	1520			1280			356		
1,2,3,7,8,9-HxCDD		0.02	U	396			309			154		
2,3,4,6,7,8-HxCDF		0.02	U	421			374			122		
1,2,3,7,8,9-HxCDF		0.02	U		0.74	U		0.68	U		0.33	U
1,2,3,4,6,7,8-HpCDF	0.14		J[6] EB[2]	13400		J[6] D	13100		J[6] D	2710		J[6]
1,2,3,4,6,7,8-HpCDD	0.63		J EB[2]	55500		J[3] D	53400		J[3] D	12900		D
1,2,3,4,7,8,9-HpCDF		0.02	U	428			421			107		
OCDD	7.9		J EB[2]	560000		J[3] D	528000		J[3, 5] D	164000		J[3] D
OCDF	0.44		J EB[2]	37000		D	37400		J[5] D	7900		D
Total TCDDs	0.07		J	234		J	225		J	37.3		J
Total PeCDDs		0.06	UJ[1]	799		J	813		J	227		J
Total HxCDDs	0.06		J EB[2]	6070		J	5800		J	2010		J
Total HpCDDs	1.1		J EB[2]	90700		J D	86700		J D	23000		J D
Total TCDFs		0.06	UJ[1]	266		J	210		J	68.2		J
Total PeCDFs		0.02	UJ	772		J	784		J	286		J
Total HxCDFs	0.14		J EB[2]	11800		J	11500		J	2540		J
Total HpCDFs	0.38		J EB[2]	50100		J D	49800		J D	9610		J
Toxic Equivalent #	0.0102		J	1290		J	1180		J	325		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as “EMPC” in the Result column.

@ = All 2,3,7,8-TCDF results are reported from the original analysis using the DB-5 column.

= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

S4VM DATA VALIDATION QUALIFIER COMMENTS:

J - The congener concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values with no superscripts.

J, UJ - The concentrations reported for the Total TCDDs through HpCDFs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

[1] Method blank contamination; the positive sample results that are less than the method blank result are reported as non-detects (U).

[2] Equipment blank contamination; the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error in the solid samples as evidenced by the aqueous equipment blank contamination.

[3] Concentration above calibration range; Estimate (J) positive results.

[4] Relative Retention Time (RRT) outside criteria; ; Estimate (J, UJ) positive and non-detected results.

[5] Low Labeled Compound recovery; Estimate (J) positive results for affected compoounds in sample F0122.

[6] "Warning Low" PE score; Estimate (J) positive 1,2,3,4,6,7,8-HpCDF results for all soil samples.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0120 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0124			F0125			F0126			F0127		
Sample Location:	MHK_SS-140_1-2			MHK_SS-145_0-.5			MHK_SS-151_0-.5			MHK_SS-152_0-.5		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	86.74			79.04			90.02			89.89		
Dilution Factor:	1			1			1			1		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.33		J	1.4			0.05		J		0.04	U
2,3,7,8-TCDF @	0.22		J	11.3			0.27		J	0.09		J
1,2,3,7,8-PeCDF	0.17		J	1.0		J	0.10		J		0.06	UJ[1, 4]
1,2,3,7,8-PeCDD	1.0		J	3.6		J		0.06	U		0.05	U
2,3,4,7,8-PeCDF	0.16		J	2.3		J	0.07		J	0.04		J
1,2,3,4,7,8-HxCDF	1.3		J	10.1		J	0.25		J	0.07		J
1,2,3,6,7,8-HxCDF	0.89		J	5.6		J	0.14		J		0.04	U
1,2,3,4,7,8-HxCDD	1.3		J	10.3			0.18		J		0.08	U
1,2,3,6,7,8-HxCDD	11.9			38.7			0.70		J		0.09	U
1,2,3,7,8,9-HxCDD	3.9		J	25.2			0.53		J		0.07	U
2,3,4,6,7,8-HxCDF	3.8		J	9.5			0.21		J	0.05		J
1,2,3,7,8,9-HxCDF		0.31	U	0.39		J[4]		0.11	U		0.06	U
1,2,3,4,6,7,8-HpCDF	98.7		J[6]	309		J[6]	5.6		J[6]	0.60		J[6] EB[2]
1,2,3,4,6,7,8-HpCDD	482			1260			24.0			2.3		J EB[2]
1,2,3,4,7,8,9-HpCDF	3.3		J	10.0			0.23		J		0.07	U
OCDD	7290		J[3]	13700		J[3]	240			25.9		EB[2]
OCDF	385			651			10.2		J EB[2]	1.2		J EB[2]
Total TCDDs	2.7		J	15.9		J	0.30		J		0.06	UJ[1]
Total PeCDDs	7.0		J	51.0		J	0.68		J		0.09	UJ[1]
Total HxCDDs	54.9		J	347		J	5.5		J EB[2]	0.85		J EB[2]
Total HpCDDs	837		J	2480		J	44.2		J	4.3		J EB[2]
Total TCDFs	3.5		J	109		J	2.1		J EB[2]	0.38		J EB[2]
Total PeCDFs	6.2		J	76.4		J	1.3		J	0.39		J
Total HxCDFs	165		J	308		J	5.1		J EB[2]	0.70		J EB[2]
Total HpCDFs	351		J	871		J	15.1		J	1.5		J EB[2]
Toxic Equivalent #	11.9		J	36.9		J	0.675		J	0.0701		J

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= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

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J, UJ - The concentrations reported for the Total TCDDs through HpCDFs are all estimated (J, UJ) due to the quantitation procedure used to calculate the total homologues.

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[3] Concentration above calibration range; Estimate (J) positive results.

[4] Relative Retention Time (RRT) outside criteria; ; Estimate (J, UJ) positive and non-detected results.

[5] Low Labeled Compound recovery; Estimate (J) positive results for affected compoounds in sample F0122.

[6] "Warning Low" PE score; Estimate (J) positive 1,2,3,4,6,7,8-HpCDF results for all soil samples.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0120 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0128			F0129			F0130			F0131		
Sample Location:	MHK_SS-153_0-.5			MHK_SS-154_0-.5			MHK_SS-155_0-.5			OW-401		
Sample Type:	Field_Sample			Field_Sample			Field_Sample			Field_Duplicate		
Matrix/Level:	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
% Solids:	86.35			90.35			89.51			83.22		
Dilution Factor:	1			1			1			1, 10 (D)		
Units:	ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)			ng/kg (dry weight)		
Compound	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD	0.23		J		0.05	U	0.36		J	7.4		
2,3,7,8-TCDF @	4.0			1.0		J	1.6			2.2		
1,2,3,7,8-PeCDF	0.82		J	0.21		J	0.50		J	2.2		J
1,2,3,7,8-PeCDD	0.83		J	0.25		J	2.0		J	25.6		
2,3,4,7,8-PeCDF	1.1		J	0.31		J	0.71		J	5.0		J
1,2,3,4,7,8-HxCDF	3.0		J	1.2		J	3.7		J	44.6		
1,2,3,6,7,8-HxCDF	1.3		J	0.53		J	2.5		J	28.7		
1,2,3,4,7,8-HxCDD	2.0		J	0.54		J	4.6		J	48.3		
1,2,3,6,7,8-HxCDD	7.8			1.9		J	19.6			344		
1,2,3,7,8,9-HxCDD	5.8			1.5		J	14.9			145		
2,3,4,6,7,8-HxCDF	2.3		J	1.1		J	8.8			117		
1,2,3,7,8,9-HxCDF		0.13	U		0.14	U		0.26	U		0.29	U
1,2,3,4,6,7,8-HpCDF	52.2		J[6]	26.8		J[6]	178		J[6]	2680		J[6]
1,2,3,4,6,7,8-HpCDD	235			70.6			852			17000		D
1,2,3,4,7,8,9-HpCDF	1.7		J	0.95		J	6.7			102		
OCDD	2130			808			12000		J[3]	214000		J[3] D
OCDF	91.9			112			577			10300		D
Total TCDDs	3.1		J	0.59		J	4.0		J	39.1		J
Total PeCDDs	9.4		J	2.6		J	21.0		J	224		J
Total HxCDDs	65.0		J	16.0		J EB[2]	159		J	2000		J
Total HpCDDs	428		J	127		J	1550		J	30600		J D
Total TCDFs	19.5		J	6.7		J	11.3		J	62.4		J
Total PeCDFs	18.1		J	5.3		J	23.9		J	266		J
Total HxCDFs	50.7		J	21.0		J	149		J	2510		J
Total HpCDFs	133		J	82.8		J	554		J	9480		J
Toxic Equivalent #	7.59		J	2.39		J	22.3		J	373		J

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= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

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[4] Relative Retention Time (RRT) outside criteria; ; Estimate (J, UJ) positive and non-detected results.

[5] Low Labeled Compound recovery; Estimate (J) positive results for affected compoounds in sample F0122.

[6] "Warning Low" PE score; Estimate (J) positive 1,2,3,4,6,7,8-HpCDF results for all soil samples.

ESAT Generated Data Summary Table - Validated Results

Lab: AGAT Laboratories **SDG**: F0120 **Case**: 42957 **SOW**: DLM02.2 **Analysis**: Dioxin/Furan

Sample No.:	F0132		
Sample Location:	Equip Blank		
Sample Type:	Field_Blank		
Matrix/Level:	Water		
% Solids:	NA		
Dilution Factor:	1		
Units:	pg/L		
Compound	**Result**	**EMPC/ EDL***	**Flag**
2,3,7,8-TCDD		0.48	U
2,3,7,8-TCDF @		0.34	U
1,2,3,7,8-PeCDF		0.38	U
1,2,3,7,8-PeCDD	.	0.26	U
2,3,4,7,8-PeCDF		0.34	U
1,2,3,4,7,8-HxCDF		0.26	U
1,2,3,6,7,8-HxCDF		0.26	U
1,2,3,4,7,8-HxCDD		0.44	U
1,2,3,6,7,8-HxCDD		0.44	U
1,2,3,7,8,9-HxCDD		0.40	U
2,3,4,6,7,8-HxCDF		0.26	U
1,2,3,7,8,9-HxCDF		0.32	U
1,2,3,4,6,7,8-HpCDF	0.42		J
1,2,3,4,6,7,8-HpCDD	1.4		J
1,2,3,4,7,8,9-HpCDF		0.46	U
OCDD	12.2		J
OCDF	2.2		J
Total TCDDs		0.62	UJ[1]
Total PeCDDs		2.3	UJ[1]
Total HxCDDs	2.1		J
Total HpCDDs	2.3		J
Total TCDFs	0.52		J
Total PeCDFs	0.16		J
Total HxCDFs	1.5		J
Total HpCDFs	0.80		J
Toxic Equivalent #	0.0225		J

* = The values in this column are either the Estimated Detection Limits (EDL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as “EMPC” in the Result column.

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= The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds", Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results, estimated values, and reported EMPC values. The TE values are estimated (J) when any individual congener is estimated or is an EMPC. The TE calculations do not include EDL values.

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[5] Low Labeled Compound recovery; Estimate (J) positive results for affected compoounds in sample F0122.

[6] "Warning Low" PE score; Estimate (J) positive 1,2,3,4,6,7,8-HpCDF results for all soil samples.

APPENDIX A.5

Eastern Analytical Validation Reports and Laboratory Reports

US EPA Approval Signature

1-24-13
Date

January 25, 2013

Mr. Gerardo Millan-Ramos
Remedial Project Manager
EPA New England
5 Post Office Square, Suite 100
Boston, MA 02109

Re: TO No. 85, Task No. 1, TDF No. 2842
Case No. 2158.01, EAI IDs: 115226, 115227, 115273, 115278
Eastern Analytical, Inc. – Concord, NH
Mohawk Tannery Southern Parcel, Nashua NH
Stage_2A_Validation_Manual (S2AVM)

1, 4-Dioxane:

23/Groundwater/ MHK_GZ-10, MHK_GZ-11, MHK_GZ-13, MHK_GZ-14, MHK_SH-13, MHK_SH-19, OW-521, MHK_PZ-01, MHK_PZ-02, MHK_PZ-03, MHK_PZ-04, MHK_PZ-05, MHK_PZ-06, MHK_PZ-07, MHK_PZ-08, MHK_PZ-09, MHK_PZ-10, MHK_PZ-11, MHK_PZ-12, MHK_PZ-13, MHK_PZ-14, MHK_PZ-15, OW-531 (Field duplicate pairs: MHK_GZ-10/OW-521, MHK_PZ-14/OW-531)

4/Trip Blank/ TRIP BLANK

2/Equipment Blank/ EQUIP BLANK

1/PE/ DX00059

Dear Mr. Millan-Ramos:

A stage 2A manual validation was performed on the inorganic analytical data for 23 groundwater samples, four trip blanks, two equipment blanks, and one performance evaluation sample collected by Sanborn, Head & Associates, Inc. for the U.S. EPA at the Mohawk Tannery Southern Parcel Site in Nashua, NH. The samples were analyzed according to USEPA SW-846 method 8260B SIM for 1,4-Dioxane. The samples were validated using first the criteria in the specified method; and the Sampling and Analysis Plan, Mohawk Tannery Site - Southern Parcel Study, Nashua, NH, September 2012 then the USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review, June 2008; defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 procedures; and finally to EPA Region I's Environmental Services Assistance Team Organic Data Validation SOP ESAT-01-0082 (03/30/07).

The data were evaluated based on the following parameters:

N/A • Data Completeness
* • Preservation and Technical Holding Times

N/A	•	GC/MS Instrument Performance Check
N/A	•	Initial Calibrations
N/A	•	Continuing Calibration Verifications
*	•	Blanks
*	•	Deuterated Monitoring/Surrogate Compounds
N/A	•	Internal Standards
N/A	•	Matrix Spike/Matrix Spike Duplicate
*	•	Laboratory Control Sample Results
*	•	Field Duplicates
*	•	PE Samples/Accuracy Check
N/A	•	Target Compound Identification
N/A	•	Compound Quantitation and Reported Quantitation Limits
N/A	•	Tentatively Identified Compounds
N/A	•	System Performance

* - All criteria were met for this parameter.
N/A - Not applicable
Electronic Data Review Reports were not available for this SDG.

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- Support a screening level human health and ecological risk assessment (evaluating groundwater, surface water, soil, and sediment risks) of the Southern Parcel for potential de-listing from the NPL.

- Allow evaluation/comparison between sediment sample results collected at locations from the Nashua River adjacent to the Southern Parcel and sediment samples collected at locations from the Nashua River upstream (i.e., background) of the Southern Parcel.

One single blind performance evaluation (PE) sample DX00059 was evaluated for this SDG. 1,4-Dioxane was scored "Within Limits". No action was required.

Data validation did not indicate any data quality problems. See the attached worksheets. The results reported on the Data Summary Table are usable for the site objectives.

January 25, 2013

Sincerely,
TechLaw, Inc.

Leslie Downey
Data Validator

Louis Macri
ESAT Program Manager

Attachments: Data Summary Table
Data Validation Worksheets
Support Documentation
PE Score Results
Field Notes

ESAT Generated Data Summary Table - Validated Results

Lab: Eastern Analytical, Inc. - Concord, NH EAI IDs: 115226, 115227, 115273, 115278 **Case**: 2158.01 **Analysis**: 1, 4-Dioxane by Method 8260B SIM

Sample No.:	MHK_GZ-10		MHK_GZ-13		MHK_GZ-14		MHK_SH-19		OW-521		EQUIP BLANK		TRIP BLANK		MHK_GZ-11	
Laboratory ID:	115226.01		115226.02		115226.03		115226.04		115226.05		115226.06		115226.07		115278.01	
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Duplicate		Field_Blank		Field_Blank		Field_Sample	
Matrix/Level:	Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low	
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dilution Factor:	1		1		1		1		1		1		1		1	
Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**
1,4-Dioxane	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U

Sample No.:	MHK_SH-13		TRIP BLANK		MHK_PZ-01		MHK_PZ-02		MHK_PZ-03		MHK_PZ-04		MHK_PZ-06		MHK_PZ-14	
Laboratory ID:	115278.02		115278.03		115227.01		115227.02		115227.03		115227.04		115227.05		115227.06	
Sample Type:	Field_Sample		Field_Blank		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix/Level:	Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low	
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dilution Factor:	1		1		1		1		1		1		1		1	
Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**
1,4-Dioxane	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U

Sample No.:	OW_531		EQUIP BLANK		TRIP BLANK		MHK_PZ-05		MHK_PZ-07		MHK_PZ-08		MHK_PZ-09		MHK_PZ-10	
Laboratory ID:	115227.07		115227.08		115227.09		115273.01		115273.02		115273.03		115273.04		115273.05	
Sample Type:	Field_Duplicate		Field_Blank		Field_Blank		Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix/Level:	Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low	
% Solids:	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Dilution Factor:	1		1		1		1		1		1		1		1	
Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**
1,4-Dioxane	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U

Sample No.:	MHK_PZ-11		MHK_PZ-12		MHK_PZ-13		MHK_PZ-15		TRIP BLANK							
Laboratory ID:	115273.06		115273.07		115273.08		115273.09		115273.1							
Sample Type:	Field_Sample		Field_Sample		Field_Sample		Field_Sample		Field_Blank							
Matrix/Level:	Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low		Groundwater/Low							
% Solids:	N/A		N/A		N/A		N/A		N/A							
Dilution Factor:	1		1		1		1		1							
Units:	ug/L		ug/L		ug/L		ug/L		ug/L							
Compound	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**	**Final Result**	**Final Flag**						
1,4-Dioxane	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U						

S2AVM DATA VALIDATION QUALIFIER COMMENTS:
NONE

Eastern Analytical, Inc.

Professional laboratory & drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301

Subject: Laboratory Report
Eastern Analytical, Inc. ID: 115226
Client Identification: Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No.
Date Received: 10/18/2012

Report revision/reissue: Revision, replaces report dated 10/25/12

Revision information: A comment has been inserted within the 1,4-Dioxane QC Report concerning vials for MS/MSD.

Dear Mr. White:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director	10.26.12	5
	Date	# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **115226**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Temperature upon receipt (°C): 2.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
115226.01	MHK_GZ-10	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115226.02	MHK_GZ-13	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115226.03	MHK_GZ-14	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115226.04	MHK_SH-19	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115226.05	OW-521	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115226.06	Equip Blank	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115226.07	Trip Blank	10/18/12	10/2/12	aqueous		Adheres to Sample Acceptance Policy
115226.08	DX00059	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **115226**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	MHK_GZ-10	MHK_GZ-13	MHK_GZ-14	MHK_SH-19	OW-521	Equip Blank	Trip Blank
Lab Sample ID:	115226.01	115226.02	115226.03	115226.04	115226.05	115226.06	115226.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	10/17/12	10/16/12	10/16/12	10/16/12	10/17/12	10/17/12	10/2/12
Date Received:	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	10/23/12	10/23/12	10/23/12	10/23/12	10/23/12	10/23/12	10/23/12
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**85 %R**	**85 %R**	**85 %R**	**86 %R**	**85 %R**	**86 %R**	**84 %R**
Toluene-d8 (surr)	**89 %R**	**89 %R**	**88 %R**	**89 %R**	**99 %R**	**90 %R**	**99 %R**

LABORATORY REPORT

EAI ID#: **115226**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	DX00059
Lab Sample ID:	115226.08
Matrix:	aqueous
Date Sampled:	10/17/12
Date Received:	10/18/12
Units:	ug/l
Date of Analysis:	10/23/12
Analyst:	VG
Method:	8260B SIM
Dilution Factor:	1
1,4-Dioxane	**11**
4-Bromofluorobenzene (surr)	**84 %R**
Toluene-d8 (surr)	**88 %R**

QC REPORT

EAI ID#: **115226**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.9 (119 %R)	5.7 (114 %R) (4 RPD)	10/23/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	85 %R	85 %R	86 %R	10/23/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	88 %R	99 %R	10/23/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .
Additional vials were not provided by the client for MS/MSD.

Chain-of-Custody Record

115226

5

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested: 1,4 Dioxane	# of Containers	NOTES MeOH Vial #
MHK_GZ-10	10/17/12 10:26	GW	G	X	2	
MHK_GZ-13	10/16/12 14:51	GW	G	X	2	
MHK_GZ-14	10/16/12 11:20	GW	G	X	2	
MHK_SH-19	10/16/12 17:38	GW	G	X	2	
OW-521	10/17/12 10:26	GW	G	X	2	
EQUIP BLANK	10/17/12 14:44	Aq	G	X	2	Bladder Pump
TRIP BLANK	10/2/12 7:20	Aq	–	X	2	
DX00059	10/17/12 12:15	Aq	–	X	1	
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drining Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH				Ice		

Project Manager: T. White / K. Dubois
Company: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
City: Concord State: NH Zip: 03301
Phone 603-229-1900 Ext.:
Fax: 603-229-1919
E-Mail: kdubois@sanbornhead.com
Site Name: Mohawk Tannery Southern Parcel
Project # 2158.01
State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other: Superfund SAP

Quote #: PO#:

Date Needed: Standard TAT

QA/QC
Reporting Level
A [B] C
or
Presumptive Certainty

Reporting Options
Prelims: [Yes] or No
If Yes: Fax or [PDF]
Electonic Options
No Fax | E-Mail | PDF | Equis

Temp. 2.1 °C
Ice? (Yes) No

Sampler(s): M. Stein, A. Khandekar, K. Dubois

Relinquished By:	Date:	Time:	Received By:
	10/18/12	11:26	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu
Other Metals:

Samples Field Filtered:

Notes: (i.e., Special Detection Limits, Billing Info, If Different)
NHDES Site No. 198404002
SDG = MT2-521
Lab to choose site-specific MS/MSD.
Refer to site-specific SAP.
Trip blank prepared by EAI.
SDG is not complete.

Site History:
Suspected Contamination:
Field Readings:

Eastern Analytical, Inc.
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

Eastern Analytical, Inc.

Professional laboratory & drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301

Subject: Laboratory Report
Eastern Analytical, Inc. ID: 115227
Client Identification: Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No.
Date Received: 10/18/2012

Report revision/reissue: Revision, replaces report dated 10/25/12

Revision information: A comment has been inserted within the 1,4-Dioxane QC Reports concerning vials for MS/MSD.

Dear Mr. White:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director	10.26.12	7
	Date	# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **115227**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Temperature upon receipt (°C): 2.1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
115227.01	MHK_PZ-01	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115227.02	MHK_PZ-02	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115227.03	MHK_PZ-03	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115227.04	MHK_PZ-04	10/18/12	10/16/12	aqueous		Adheres to Sample Acceptance Policy
115227.05	MHK_PZ-06	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115227.06	MHK_PZ-14	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115227.07	OW-531	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115227.08	Equip Blank	10/18/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115227.09	Trip Blank	10/18/12	10/2/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **115227**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	MHK_PZ-01	MHK_PZ-02	MHK_PZ-03	MHK_PZ-04	MHK_PZ-06	MHK_PZ-14	OW-531
Lab Sample ID:	115227.01	115227.02	115227.03	115227.04	115227.05	115227.06	115227.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	10/16/12	10/16/12	10/16/12	10/16/12	10/17/12	10/17/12	10/17/12
Date Received:	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	10/22/12	10/22/12	10/22/12	10/22/12	10/22/12	10/22/12	10/22/12
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**86 %R**	**86 %R**	**85 %R**	**84 %R**	**84 %R**	**84 %R**	**84 %R**
Toluene-d8 (surr)	**89 %R**	**89 %R**	**89 %R**	**89 %R**	**99 %R**	**99 %R**	**88 %R**

LABORATORY REPORT

EAI ID#: **115227**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	Equip Blank	Trip Blank
Lab Sample ID:	115227.08	115227.09
Matrix:	aqueous	aqueous
Date Sampled:	10/17/12	10/2/12
Date Received:	10/18/12	10/18/12
Units:	ug/l	ug/l
Date of Analysis:	10/24/12	10/23/12
Analyst:	VG	VG
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**86 %R**	**84 %R**
Toluene-d8 (surr)	**99 %R**	**99 %R**

QC REPORT

EAI ID#: **115227**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.8 (116 %R)	5.8 (115 %R) (1 RPD)	10/22/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	85 %R	85 %R	84 %R	10/22/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	88 %R	99 %R	98 %R	10/22/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.
Additional vials were not provided by the client for MS/MSD.

QC REPORT

EAI ID#: **115227**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.9 (119 %R)	5.7 (114 %R) (4 RPD)	10/23/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	85 %R	85 %R	86 %R	10/23/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	88 %R	99 %R	10/23/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .
Additional vials were not provided by the client for MS/MSD.

QC REPORT

EAI ID#: **115227**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.7 (113 %R)	5.6 (112 %R) (1 RPD)	10/24/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	86 %R	86 %R	87 %R	10/24/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	100 %R	89 %R	10/24/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.
Additional vials were not provided by the client for MS/MSD.

10/17/12

Chain-of-Custody Record

115227

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested: 1,4 Dioxane	# of Containers	NOTES MeOH Vial #
MHK_PZ-01	10/16/12 10:45	GW	G	X	2	
MHK_PZ-02	10/16/12 12:39	GW	G	X	2	
MHK_PZ-03	10/16/12 14:50	GW	G	X	2	
MHK_PZ-04	10/16/12 15:33	GW	G	X	2	
MHK_PZ-06	10/17/12 9:20	GW	G	X	2	
MHK_PZ-14	10/17/12 10:30	GW	G	X	2	MS/MSD
OW-531	10/17/12 10:30	GW	G	X	2	
EQUIP BLANK	10/17/12 15:00	GW	Aq	X	2	Water Level
TRIP BLANK	10/2/12 7:20	GW	Aq	X	2	

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drining Water; WW-Waste Water; AQ-Aqueous
Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH

Project Manager: T. White / K. Dubois
Company: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
City: Concord State: NH Zip: 03301
Phone 603-229-1900 Ext.:
Fax: 603-229-1919
E-Mail: kdubois@sanbornhead.com
Site Name: Mohawk Tannery Southern Parcel
Project # 2158.01
State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other: Superfund SAP
Quote #: PO#:

Date Needed: Standard TAT

QA/QC
Reporting Level
A [B] C
or
Presumptive Certainty

Reporting Options
Prelims: [Yes] or No
If Yes: Fax or [PDF]
Electonic Options
No Fax E-Mail [PDF] Equis

Sample(s): M. Stein, A. Khandekar, K. Dubois

Relinquished By: Date: Time: Received By:
10/18/12 15:26

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu
Other Metals:

Samples Field Filtered:

Notes: (i.e., Special Detection Limits, Billing Info, If Different)
NHDES Site No. 198404002
SDG = MT2-531
MS/MSD on MHK PZ-134 PZ-14 ??
Refer to site-specific SAP.
Trip blank prepared by EAI.

Site History:
Suspected Contamination:
Field Readings:

Eastern Analytical, Inc.

professional laboratory & drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord , NH 03301

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 115273
Client Identification: Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No.
Date Received: 10/19/2012

Dear Mr. White :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director	10.29.12 Date	6 # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **115273**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Temperature upon receipt (°C): 2 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
115273.01	MHK_PZ-05	10/19/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115273.02	MHK_PZ-07	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.03	MHK_PZ-08	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.04	MHK_PZ-09	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.05	MHK_PZ-10	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.06	MHK_PZ-11	10/19/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115273.07	MHK_PZ-12	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.08	MHK_PZ-13	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.09	MHK_PZ-15	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115273.1	Trip Blank	10/19/12	10/2/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **115273**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	MHK_PZ-05	MHK_PZ-07	MHK_PZ-08	MHK_PZ-09	MHK_PZ-10	MHK_PZ-11	MHK_PZ-12
Lab Sample ID:	115273.01	115273.02	115273.03	115273.04	115273.05	115273.06	115273.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	10/17/12	10/18/12	10/18/12	10/18/12	10/18/12	10/17/12	10/18/12
Date Received:	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	10/25/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**83 %R**	**87 %R**	**88 %R**	**88 %R**	**87 %R**	**88 %R**	**88 %R**
Toluene-d8 (surr)	**98 %R**	**101 %R**	**100 %R**	**101 %R**	**100 %R**	**101 %R**	**89 %R**

Eastern Analytical, Inc. www.eailabs.com | 800.287.0525 | customerservice@eailabs.com

LABORATORY REPORT

EAI ID#: **115273**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	MHK_PZ-13	MHK_PZ-15	Trip Blank
Lab Sample ID:	115273.08	115273.09	115273.1
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	10/18/12	10/18/12	10/2/12
Date Received:	10/19/12	10/19/12	10/19/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	10/24/12	10/24/12	10/24/12
Analyst:	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**87 %R**	**87 %R**	**87 %R**
Toluene-d8 (surr)	**100 %R**	**89 %R**	**89 %R**

QC REPORT

EAI ID#: **115273**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.7 (113 %R)	5.6 (112 %R) (1 RPD)	10/24/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	86 %R	86 %R	87 %R	10/24/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	100 %R	89 %R	10/24/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .

QC REPORT

EAI ID#: **115273**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.6 (111 %R)	5.8 (116 %R) (4 RPD)	10/25/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	83 %R	84 %R	83 %R	10/25/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	97 %R	87 %R	87 %R	10/25/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .

Chain-of-Custody Record

For Lab Use Only 115273

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	1,4 Dioxane	# of Containers	NOTES MeOH Vial #
MHK_PZ-05	10/17/12 15:03	GW	G	X	2	
MHK_PZ-07	10/18/12 10:52	GW	G	X	2	
MHK_PZ-08	10/18/12 12:35	GW	G	X	2	
MHK_PZ-09	10/18/12 14:12	GW	G	X	2	
MHK_PZ-10	10/18/12 12:17	GW	G	X	2	
MHK_PZ-11	10/17/12 15:20	GW	G	X	2	
MHK_PZ-12	10/18/12 13:48	GW	G	X	2	
MHK_PZ-13	10/18/12 11:29	GW	G	X	2	
MHK_PZ-15	10/18/12 9:25	GW	G	X	2	
TRIP BLANK	10/2/12 7:20	GW	G	X	2	

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drining Water; WW-Waste Water; AQ-Aqueous
Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH

Project Manager: T. White / K. Dubois
Company: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
City: Concord State: NH Zip: 03301
Phone 603-229-1900 Ext.:
Fax: 603-229-1919
E-Mail: kdubois@sanbornhead.com
Site Name: Mohawk Tannery Southern Parcel
Project # 2158.01
State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other: Superfund SAP

Quote #: PO#:

Date Needed: Standard TAT

QA/QC
Reporting Level
A [B] C
or
Presumptive Certainty

Reporting Options
Prelims: [Yes] or No
If Yes: Fax or [PDF]
Electonic Options
No Fax E-Mail [PDF] Equis

Temp. 2 °C
Ice? (Yes) No

Sampler(s): M. Stein, A. Khandekar, R. Welch, K. Dubois

Relinquished By:	Date:	Time:	Received By:
	10/19/12	17:20	
Relinquished By:	Date:	Time:	Received By:
	10/19/12	13:25	
Relinquished By:	Date:	Time:	Received By:
	10/19	14:40	
Relinquished By:	Date:	Time:	Received By:

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu
Other Metals:

Samples Field Filtered:

Notes: (i.e., Special Detection Limits, Billing Info, If Different)
NHDES Site No. 198404002
SDG = MT2-531
SDG is complete.
Refer to site-specific SAP.
Trip blank prepared by EAI.

Site History:
Suspected Contamination:
Field Readings:

Eastern Analytical, Inc.
Professional laboratory & drilling services
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

Eastern Analytical, Inc.

professional laboratory & drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord , NH 03301

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 115278
Client Identification: Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No.
Date Received: 10/19/2012

Dear Mr. White :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director	10.29.12	5
	Date	# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **115278**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Temperature upon receipt (°C): 2 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
115278.01	MHK_GZ-11	10/19/12	10/17/12	aqueous		Adheres to Sample Acceptance Policy
115278.02	MHK_SH-13	10/19/12	10/18/12	aqueous		Adheres to Sample Acceptance Policy
115278.03	Trip Blank	10/19/12	10/2/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **115278**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Sample ID:	MHK_GZ-11	MHK_SH-13	Trip Blank
Lab Sample ID:	115278.01	115278.02	115278.03
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	10/17/12	10/18/12	10/2/12
Date Received:	10/19/12	10/19/12	10/19/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	10/25/12	10/25/12	10/24/12
Analyst:	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**83 %R**	**83 %R**	**87 %R**
Toluene-d8 (surr)	**98 %R**	**98 %R**	**89 %R**

QC REPORT

EAI ID#: **115278**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.7 (113 %R)	5.6 (112 %R) (1 RPD)	10/24/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	86 %R	86 %R	87 %R	10/24/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	100 %R	89 %R	10/24/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .
Additional vials were not provided by the client for MS/MSD.

QC REPORT

EAI ID#: **115278**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Mohawk Tannery Southern Parcel | 2158.01 / NHDES Site No. 198404002**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.6 (111 %R)	5.8 (116 %R) (4 RPD)	10/25/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	83 %R	84 %R	83 %R	10/25/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	97 %R	87 %R	87 %R	10/25/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .
Additional vials were not provided by the client for MS/MSD.

Chain-of-Custody Record

For Lab Use Only **115278**

5

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested: 1,4 Dioxane	# of Containers	NOTES MeOH Vial #
MHK_GZ-11	10/17/12 16:14	GW	G	X	2	
MHK_SH-13	10/18/12 11:53	GW	G	X	2	
TRIP BLANK	10/2/12 7:20	GW	G	X	2	

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drining Water; WW-Waste Water; AQ-Aqueous
Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH

Project Manager: T. White / K. Dubois
Company: Sanborn, Head & Associates, Inc.
Address: 20 Foundry Street
City: Concord State: NH Zip: 03301
Phone 603-229-1900 Ext.:
Fax: 603-229-1919
E-Mail: kdubois@sanbornhead.com
Site Name: Mohawk Tannery Southern Parcel
Project # 2158.01
State: NH
Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other: Superfund SAP
Quote #: PO#:

Date Needed: Standard TAT
QA/QC
Reporting Level
A **B** C
or
Presumptive Certainty

Reporting Options
Prelims: Yes or No
If Yes: Fax or PDF
Electonic Options
No Fax | E-Mail | PDF | Equis

Temp. 2 °C
Ice? Yes No

Sampler(s): M. Stein, A. Khandekar, K. Dubois

Relinquished By:	Date:	Time:	Received By:
	10/18/12	17:20	
	10/19/12	13:25	
	10/19	1440	

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu
Other Metals:
Samples Field Filtered:
Notes: (i.e., Special Detection Limits, Billing Info, If Different)
NHDES Site No. 198404002
SDG = MT2-521
Lab to choose site-specific MS/MSD.
Refer to site-specific SAP.
Trip blank prepared by EAI.
SDG is complete.
Site History:
Suspected Contamination:
Field Readings:

Eastern Analytical, Inc.
Professional laboratory & drilling services
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

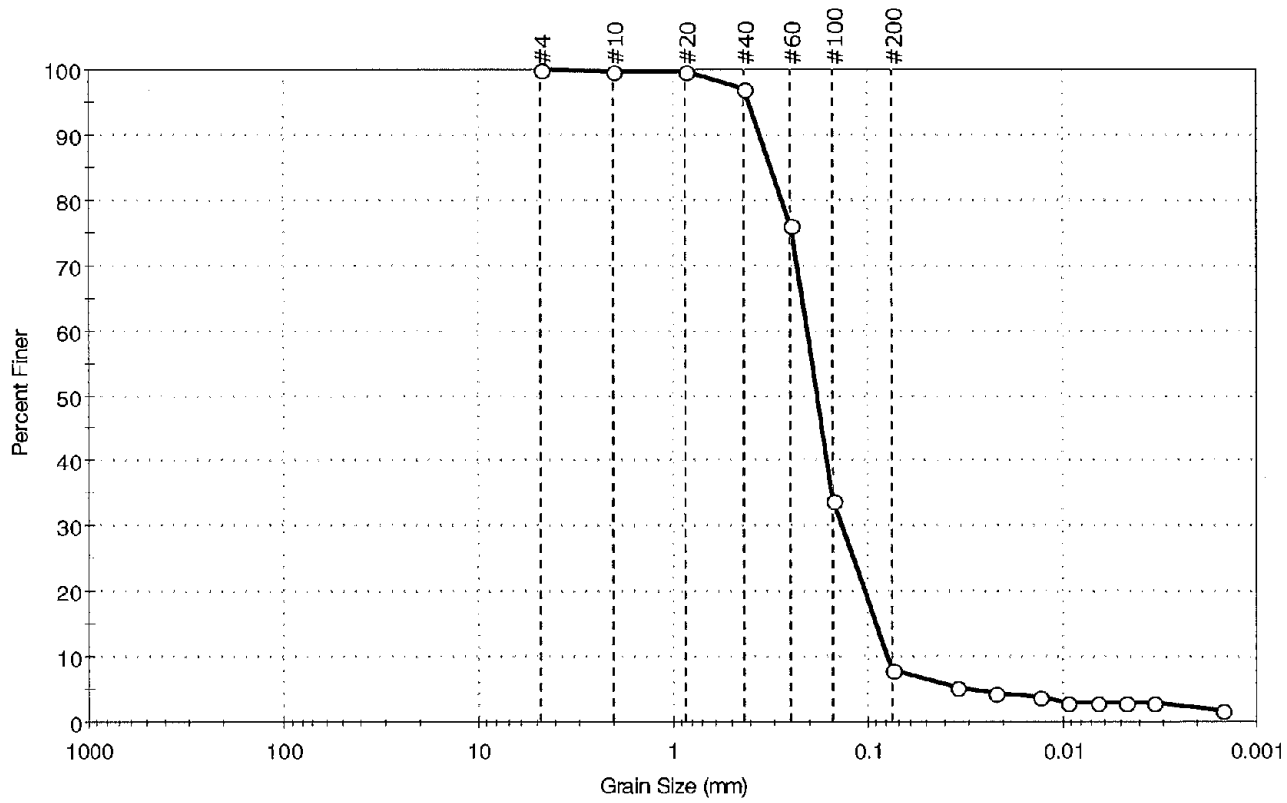
APPENDIX A.6

Geotesting Express Report

GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-01_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252674		
Test Comment:	---		
Sample Description:	Moist, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	92.1	7.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	97		
#60	0.25	76		
#100	0.15	34		
#200	0.075	8		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0349	5		
---	0.0223	4		
---	0.0132	4		
---	0.0095	3		
---	0.0066	3		
---	0.0048	3		
---	0.0034	3		
---	0.0015	2		

Coefficients

D_{85} = 0.3130 mm D_{30} = 0.1354 mm
D_{60} = 0.2057 mm D_{15} = 0.0907 mm
D_{50} = 0.1823 mm D_{10} = 0.0794 mm
C_u = 2.591 C_c = 1.122

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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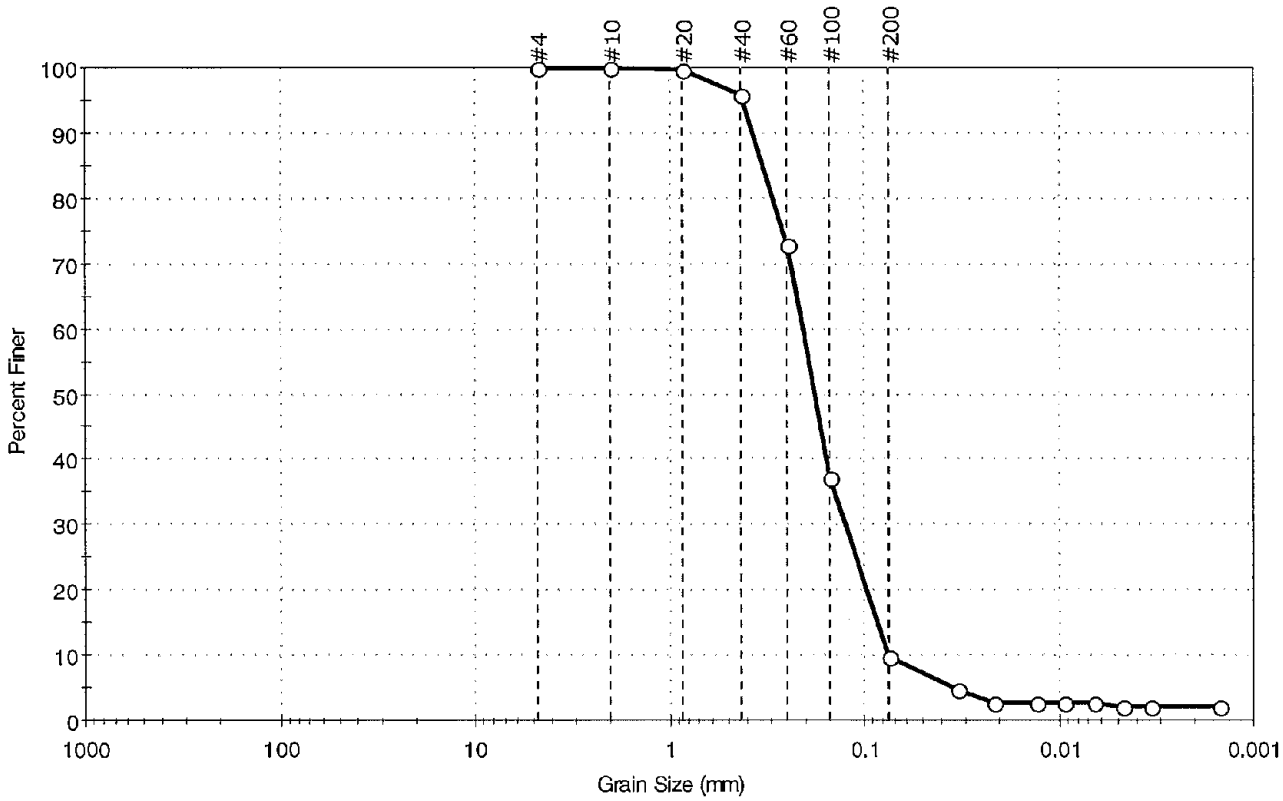
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-02_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252675		
Test Comment:	---		
Sample Description:	Moist, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	—	90.4	9.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	96		
#60	0.25	73		
#100	0.15	37		
#200	0.075	10		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0332	5		
---	0.0215	3		
---	0.0132	3		
---	0.0095	3		
---	0.0066	3		
---	0.0048	2		
---	0.0034	2		
---	0.0015	2		

Coefficients

D_{85} =0.3318 mm D_{30} =0.1251 mm

D_{60} =0.2082 mm D_{15} =0.0859 mm

D_{50} =0.1802 mm D_{10} =0.0757 mm

C_u =2.750 C_c =0.993

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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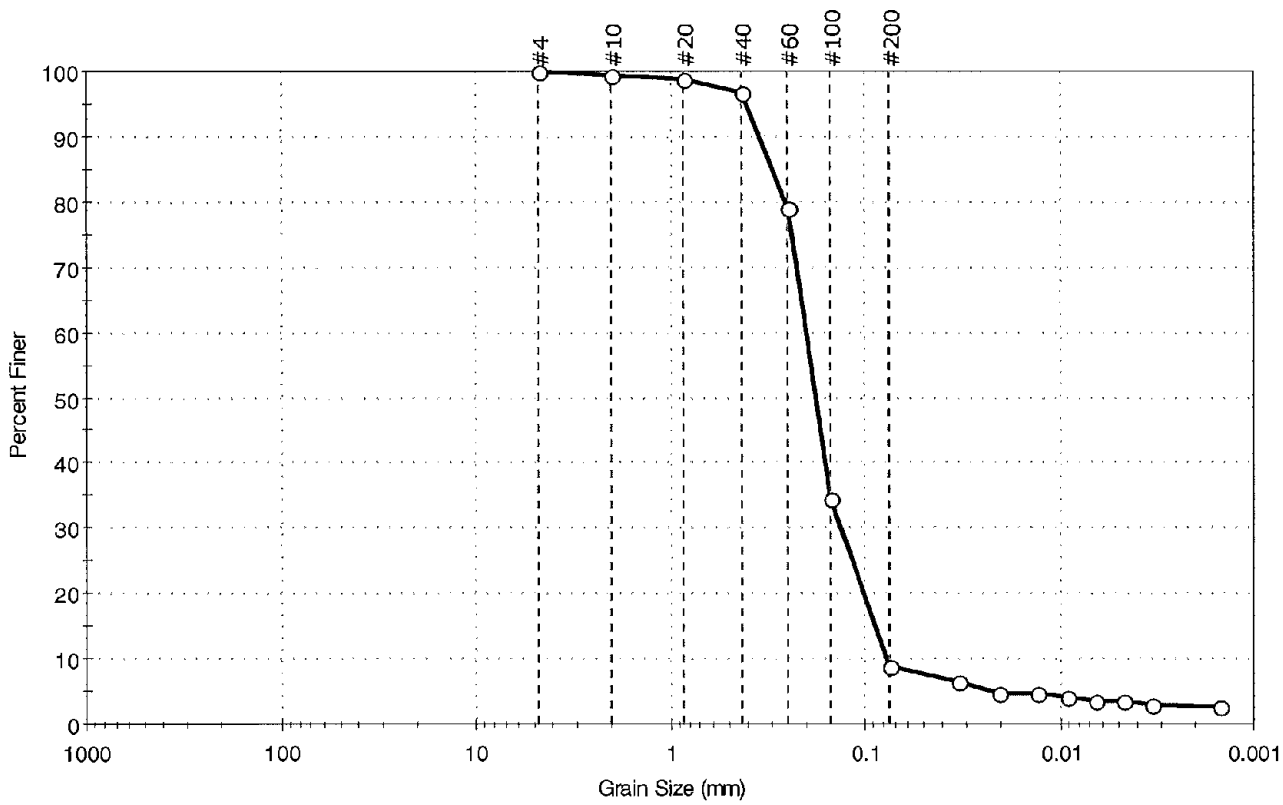
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-03_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252676		
Test Comment:	---		
Sample Description:	Wet, brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	91.0	9.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.85	99		
#40	0.42	97		
#60	0.25	79		
#100	0.15	34		
#200	0.075	9		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	7		
---	0.0209	5		
---	0.0130	5		
---	0.0093	4		
---	0.0066	3		
---	0.0047	3		
---	0.0033	3		
---	0.0015	3		

Coefficients

D_{85} = 0.2976 mm D_{30} = 0.1330 mm
D_{60} = 0.2009 mm D_{15} = 0.0884 mm
D_{50} = 0.1792 mm D_{10} = 0.0771 mm
C_u = 2.606 C_c = 1.142

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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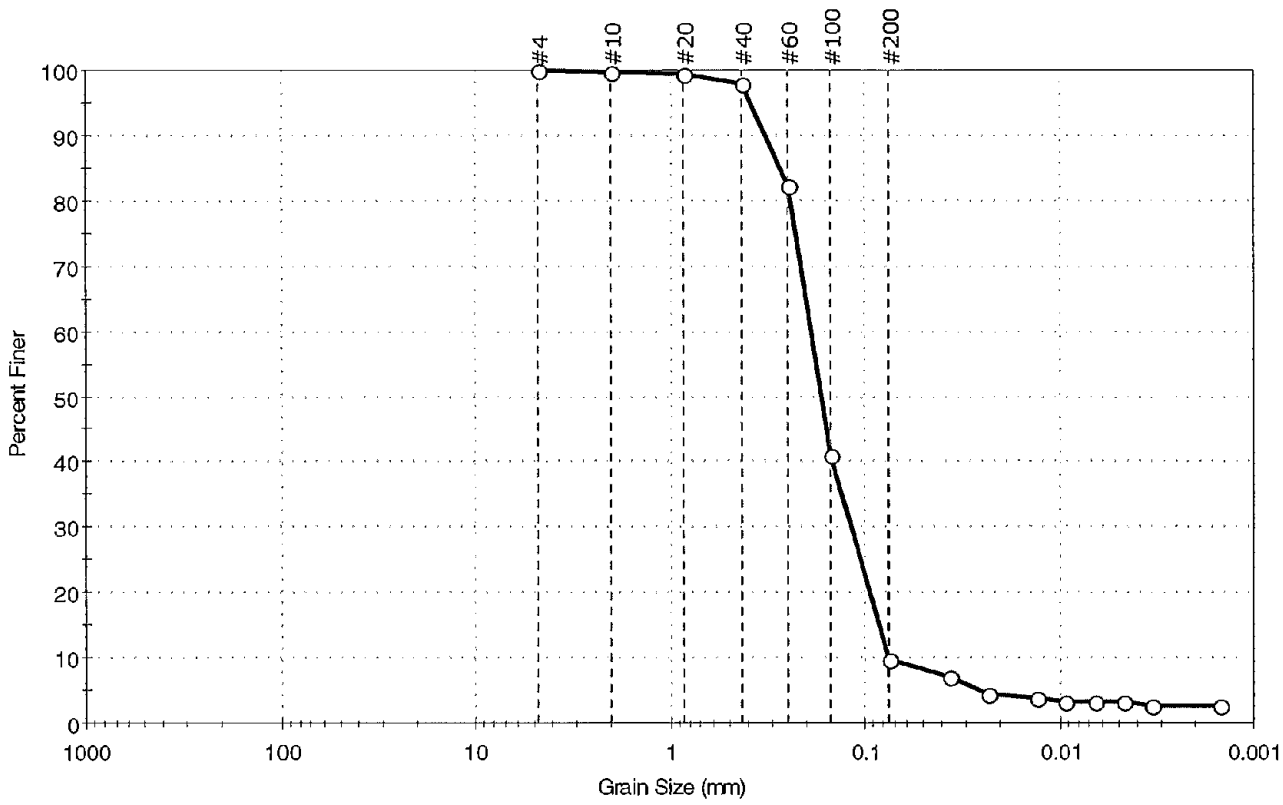
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-04_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252677		

Test Comment: ---
Sample Description: Moist, grayish brown sand with silt
Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	—	90.2	9.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	98		
#60	0.25	82		
#100	0.15	41		
#200	0.075	10		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0364	7		
---	0.0232	5		
---	0.0133	4		
---	0.0094	3		
---	0.0066	3		
---	0.0047	3		
---	0.0034	3		
---	0.0015	3		

Coefficients

D_{85} =0.2732 mm	D_{30} =0.1176 mm
D_{60} =0.1898 mm	D_{15} =0.0842 mm
D_{50} =0.1678 mm	D_{10} =0.0753 mm
C_u =2.521	C_c =0.968

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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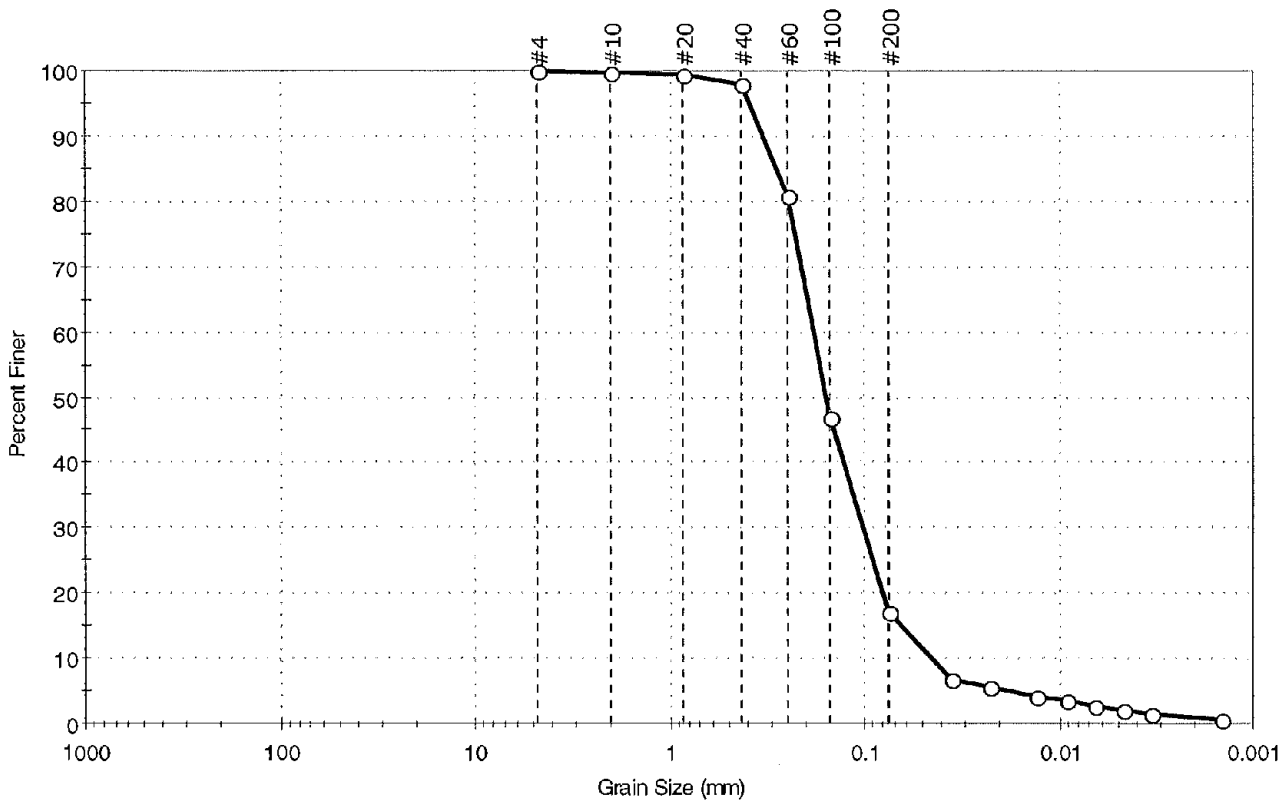
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-05_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252678		

Test Comment: ---
Sample Description: Moist, dark brown silty sand
Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	83.0	17.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	98		
#60	0.25	81		
#100	0.15	47		
#200	0.075	17		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0356	7		
---	0.0230	5		
---	0.0131	4		
---	0.0092	3		
---	0.0066	3		
---	0.0047	2		
---	0.0033	1		
---	0.0015	1		

Coefficients

D_{85} =0.2836 mm D_{30} =0.1013 mm
D_{60} =0.1825 mm D_{15} =0.0646 mm
D_{50} =0.1570 mm D_{10} =0.0448 mm
C_u =N/A C_c =N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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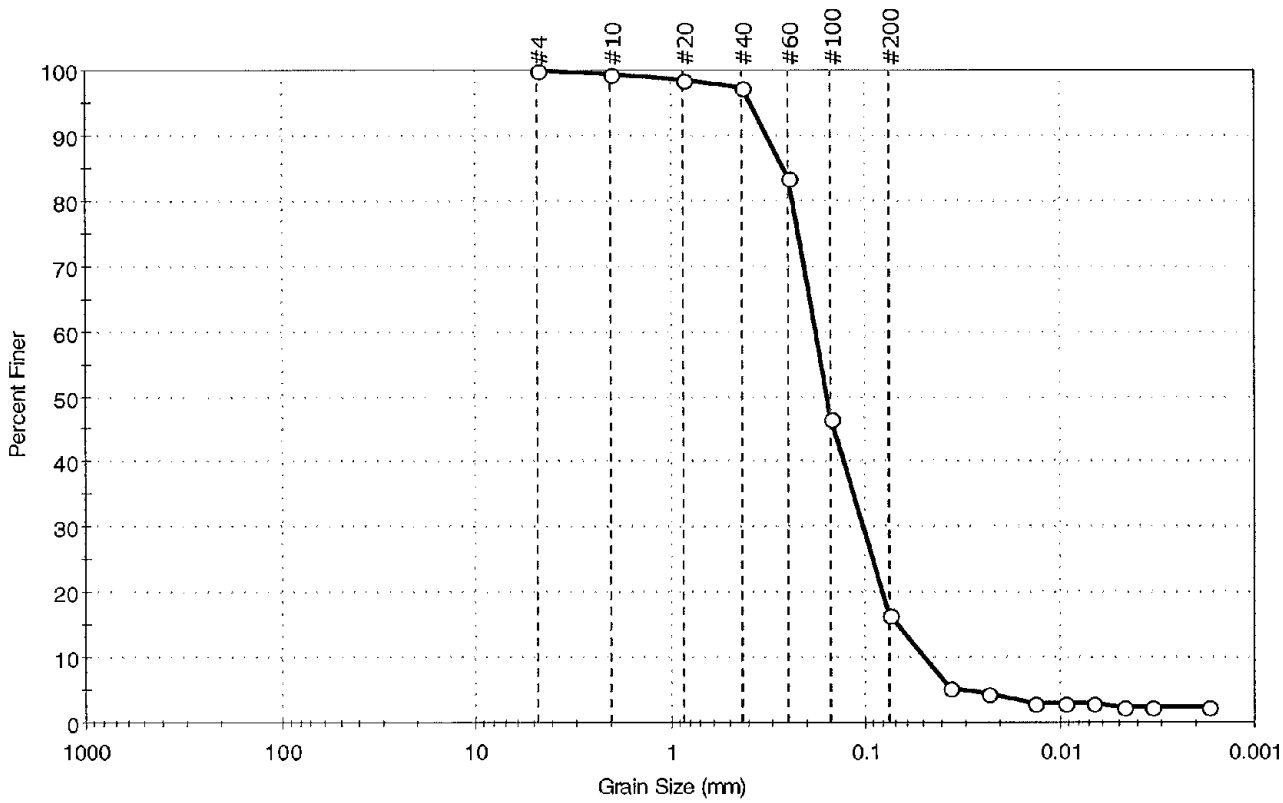
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-06_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252679		
Test Comment:	---		
Sample Description:	Wet, grayish brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	83.5	16.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.85	99		
#40	0.42	97		
#60	0.25	84		
#100	0.15	47		
#200	0.075	16		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0368	5		
---	0.0234	5		
---	0.0134	3		
---	0.0095	3		
---	0.0067	3		
---	0.0048	2		
---	0.0034	2		
---	0.0017	2		

Coefficients

D_{85} = 0.2644 mm D_{30} = 0.1023 mm
D_{60} = 0.1804 mm D_{15} = 0.0683 mm
D_{50} = 0.1570 mm D_{10} = 0.0497 mm
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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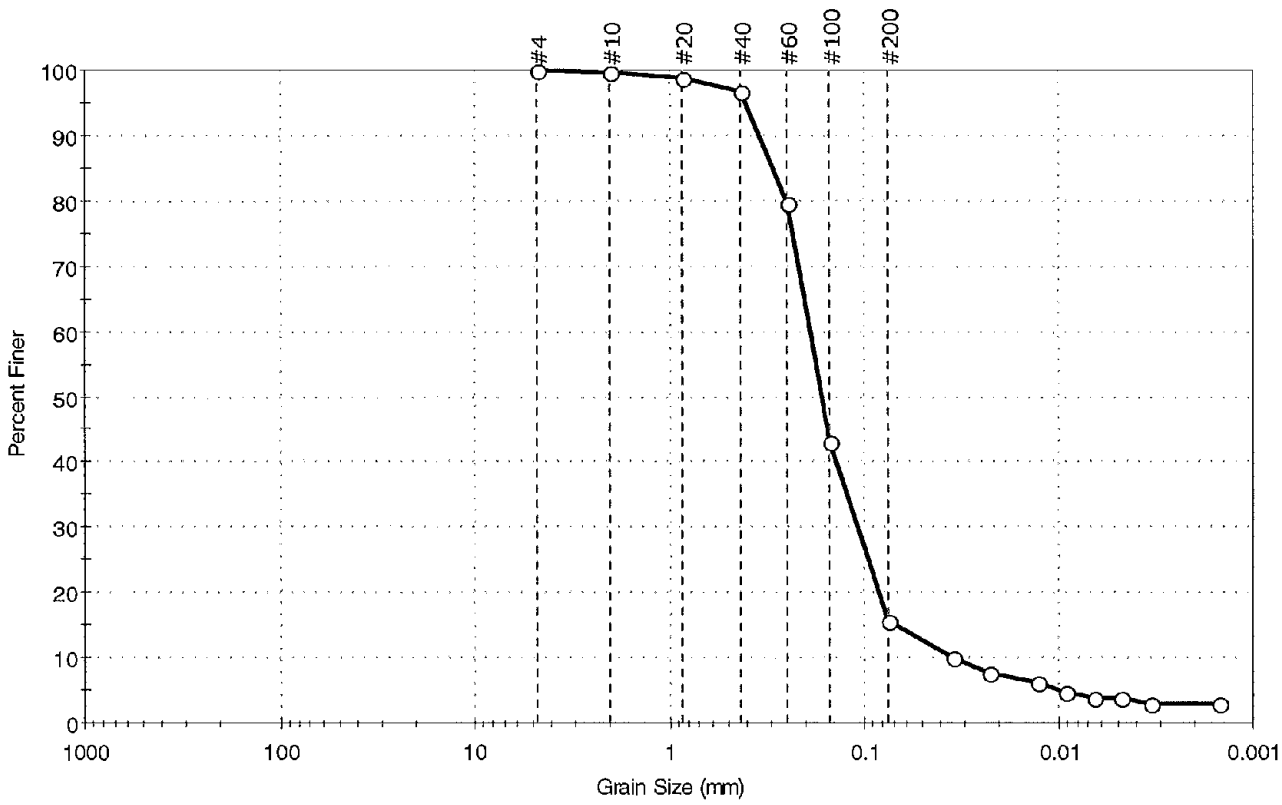
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-07_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252680		
Test Comment: ---			
Sample Description: Wet, silty sand			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	--	84.4	15.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	97		
#60	0.25	80		
#100	0.15	43		
#200	0.075	16		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0347	10		
---	0.0230	8		
---	0.0129	6		
---	0.0093	5		
---	0.0066	4		
---	0.0048	4		
---	0.0034	3		
---	0.0015	3		

Coefficients

D_{85} = 0.2947 mm D_{30} = 0.1078 mm

D_{60} = 0.1899 mm D_{15} = 0.0692 mm

D_{50} = 0.1651 mm D_{10} = 0.0351 mm

C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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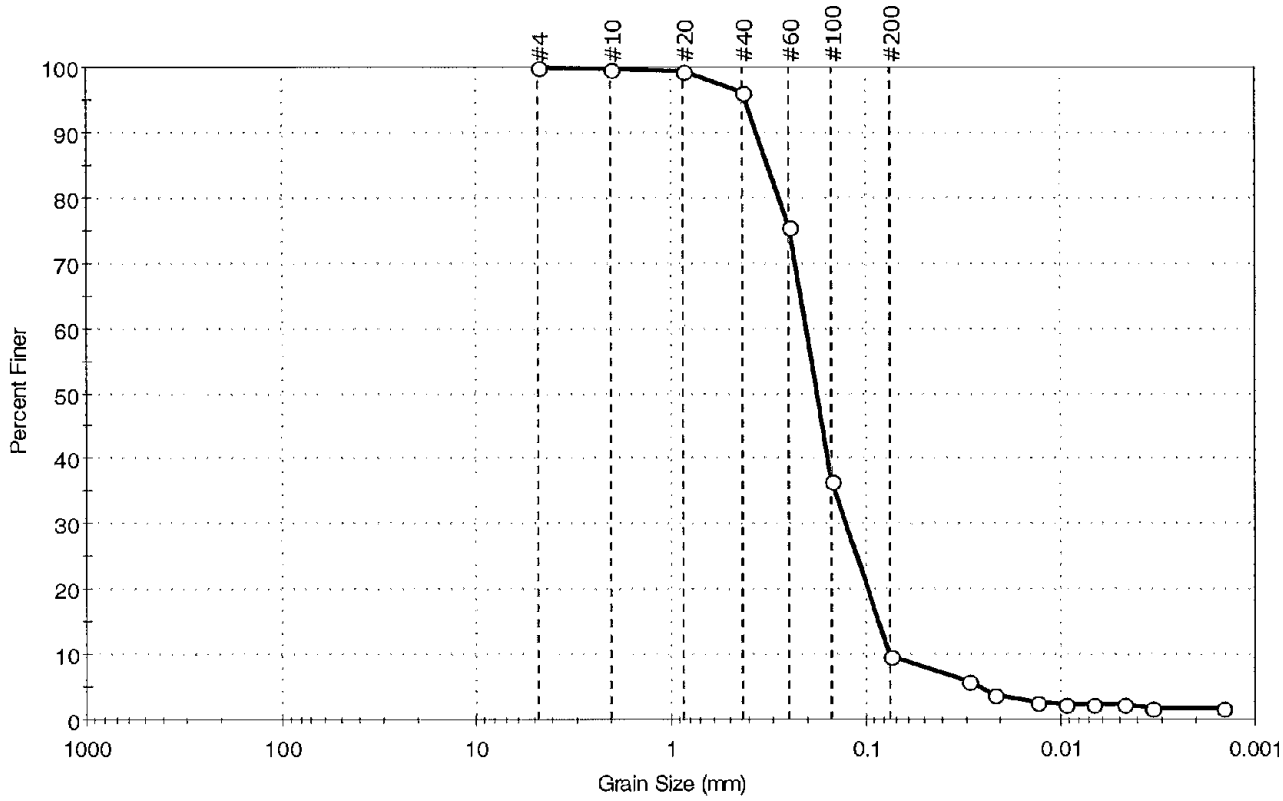
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-08_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252681		
Test Comment:	---		
Sample Description:	Moist, grayish brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	90.3	9.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	96		
#60	0.25	75		
#100	0.15	37		
#200	0.075	10		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0295	6		
---	0.0216	4		
---	0.0133	3		
---	0.0095	2		
---	0.0067	2		
---	0.0047	2		
---	0.0034	2		
---	0.0015	2		

Coefficients

D_{85} = 0.3190 mm D_{30} = 0.1264 mm

D_{60} = 0.2041 mm D_{15} = 0.0859 mm

D_{50} = 0.1789 mm D_{10} = 0.0755 mm

C_u = 2.703 C_c = 1.037

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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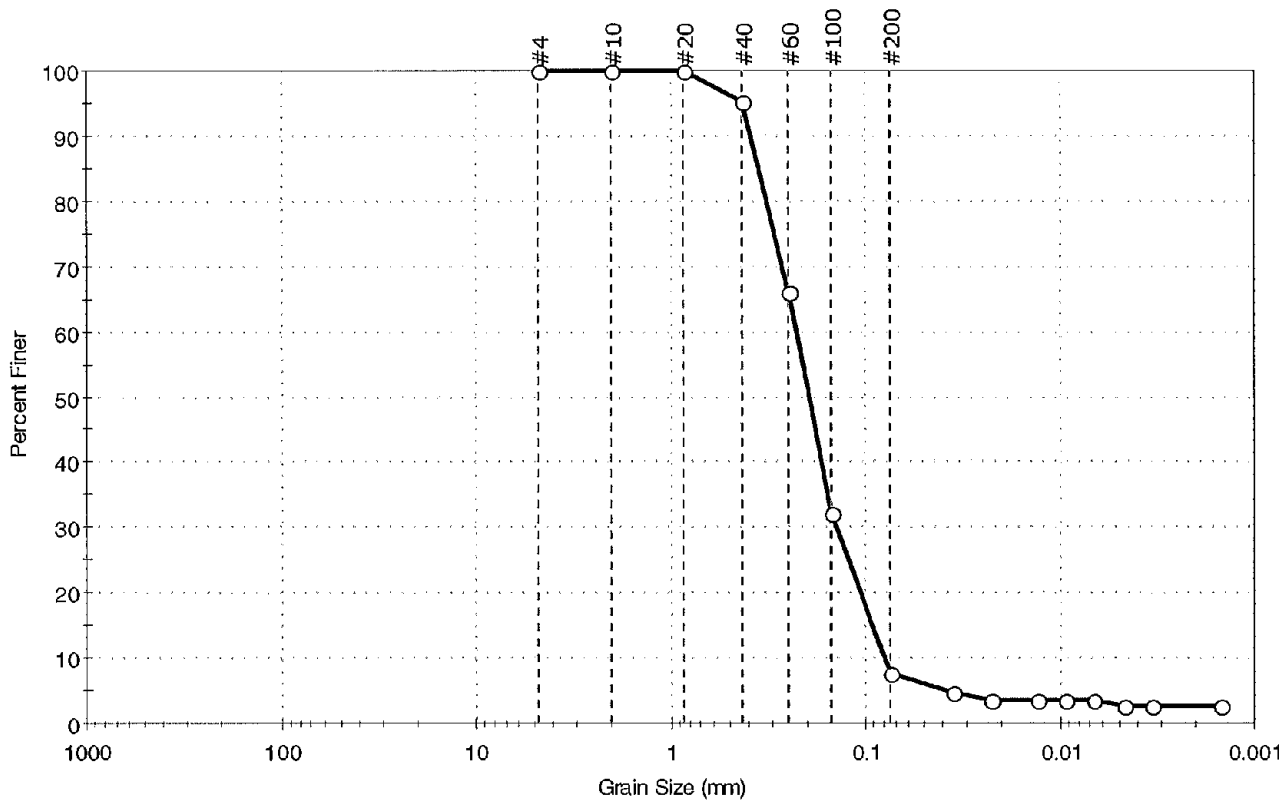
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-09_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252682		

Test Comment: ---
Sample Description: Moist, grayish brown sand with silt
Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	--	92.4	7.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	95		
#60	0.25	66		
#100	0.15	32		
#200	0.075	8		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0354	5		
---	0.0229	3		
---	0.0131	3		
---	0.0094	3		
---	0.0067	3		
---	0.0048	3		
---	0.0034	3		
---	0.0015	3		

Coefficients

D_{85} = 0.3531 mm D_{30} = 0.1412 mm
D_{60} = 0.2284 mm D_{15} = 0.0925 mm
D_{50} = 0.1964 mm D_{10} = 0.0803 mm
C_u = 2.844 C_c = 1.087

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---

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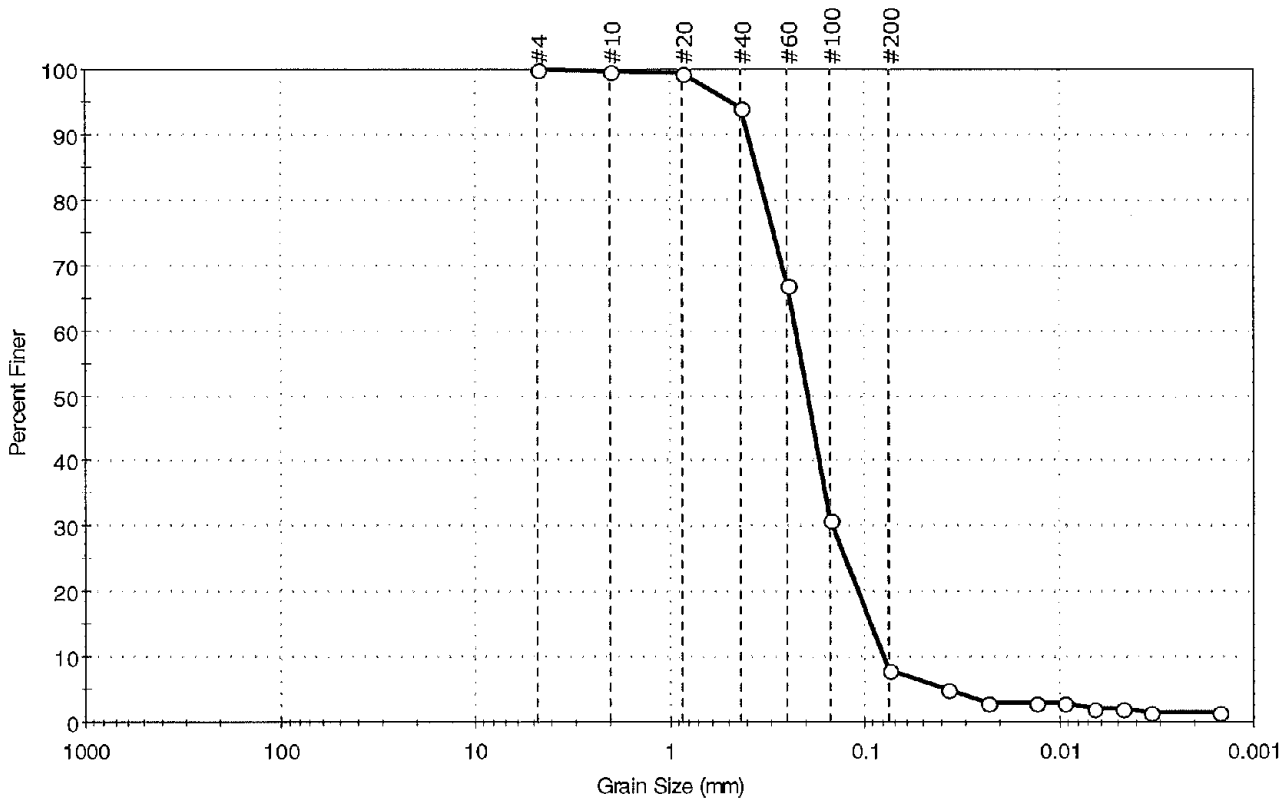
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-10_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252683		
Test Comment:	---		
Sample Description:	Wet, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	92.0	8.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	94		
#60	0.25	67		
#100	0.15	31		
#200	0.075	8		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0372	5		
---	0.0234	3		
---	0.0133	3		
---	0.0093	3		
---	0.0067	2		
---	0.0048	2		
---	0.0034	2		
---	0.0015	2		

Coefficients

D_{85} =0.3562 mm	D_{30} =0.1458 mm
D_{60} =0.2263 mm	D_{15} =0.0928 mm
D_{50} =0.1965 mm	D_{10} =0.0798 mm
C_u =2.836	C_c =1.177

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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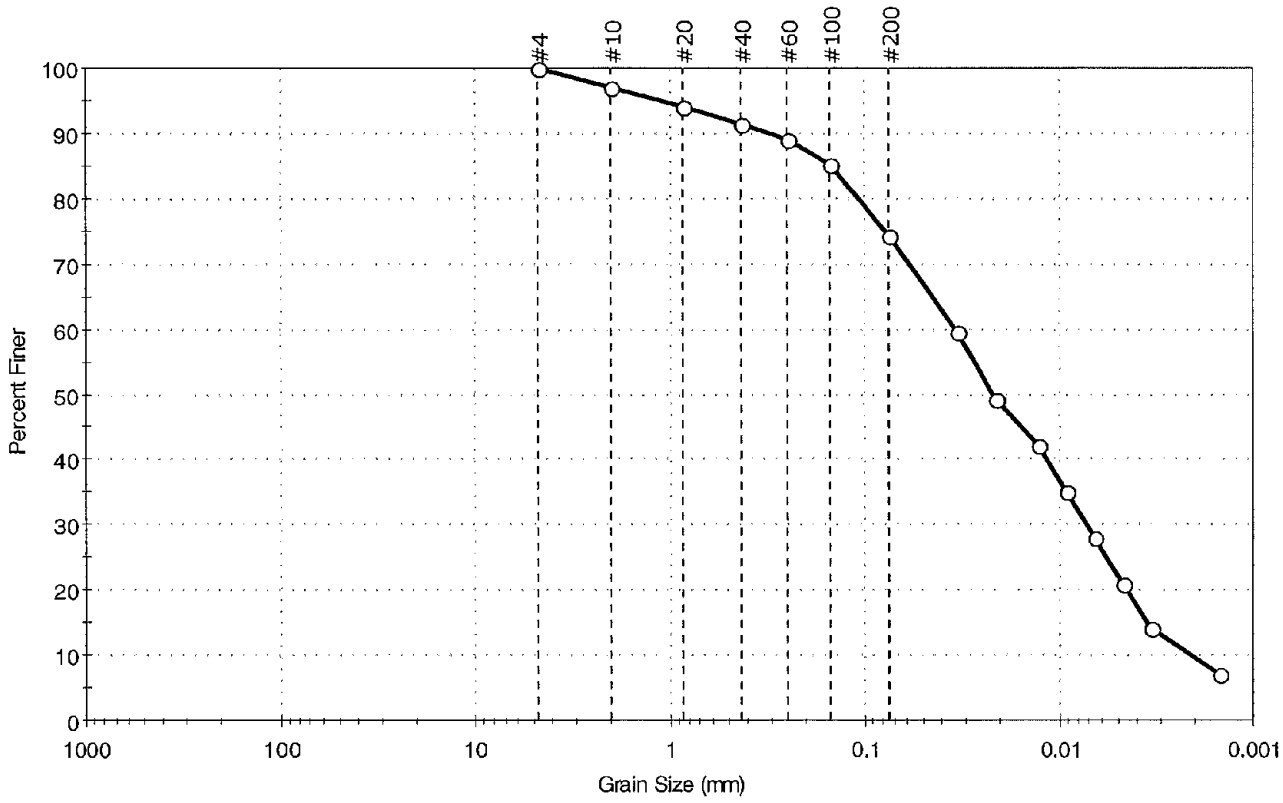
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-11_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252684		
Test Comment:	---		
Sample Description:	Wet, silt with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	25.6	74.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	97		
#20	0.85	94		
#40	0.42	92		
#60	0.25	89		
#100	0.15	85		
#200	0.075	74		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	60		
---	0.0211	49		
---	0.0128	42		
---	0.0092	35		
---	0.0067	28		
---	0.0047	21		
---	0.0034	14		
---	0.0015	7		

Coefficients

D_{85} = 0.1481 mm D_{30} = 0.0073 mm

D_{60} = 0.0342 mm D_{15} = 0.0035 mm

D_{50} = 0.0220 mm D_{10} = 0.0021 mm

C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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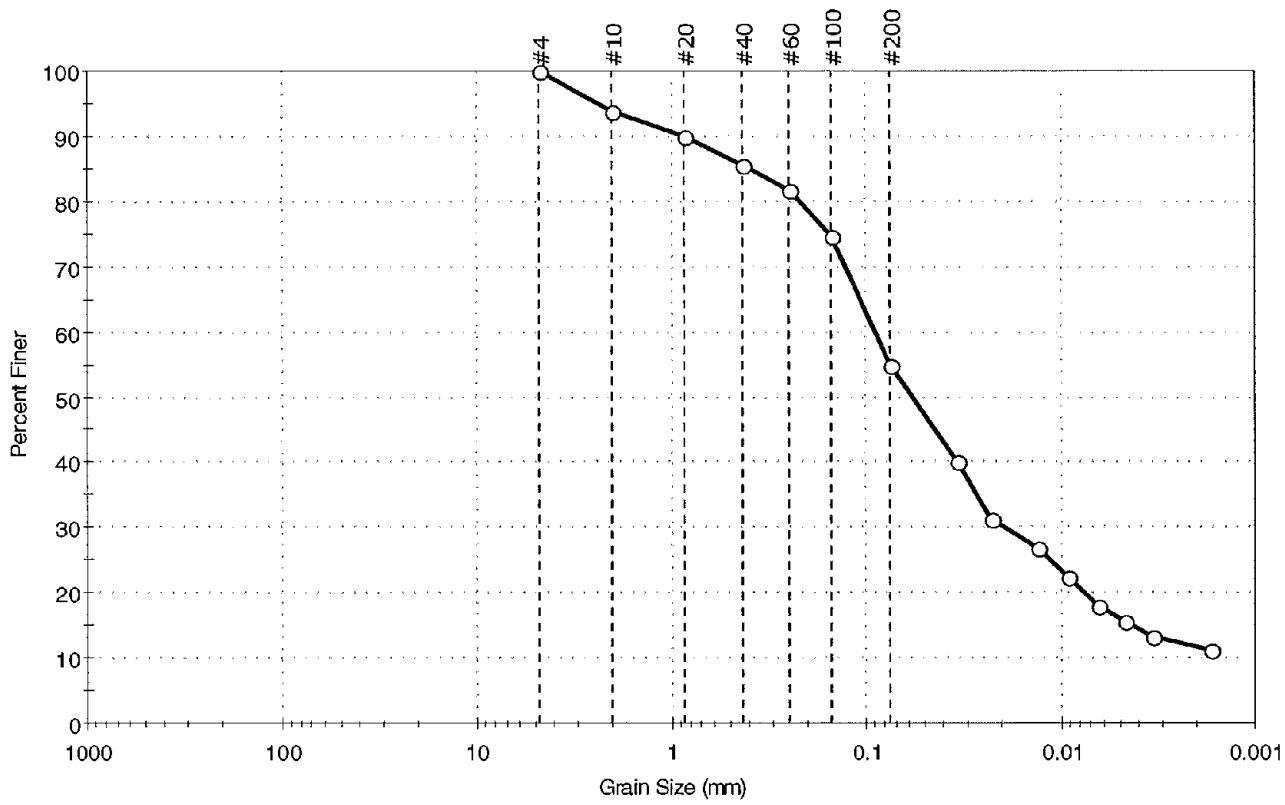
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-12_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252685		
Test Comment: ---			
Sample Description: Moist, dark brown sandy silt			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	45.0	55.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	94		
#20	0.85	90		
#40	0.42	86		
#60	0.25	82		
#100	0.15	75		
#200	0.075	55		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0338	40		
---	0.0227	31		
---	0.0130	27		
---	0.0091	22		
---	0.0064	18		
---	0.0047	16		
---	0.0033	13		
---	0.0017	11		

Coefficients

D_{85} = 0.3883 mm D_{30} = 0.0194 mm
D_{60} = 0.0897 mm D_{15} = 0.0043 mm
D_{50} = 0.0574 mm D_{10} = 0.0012 mm
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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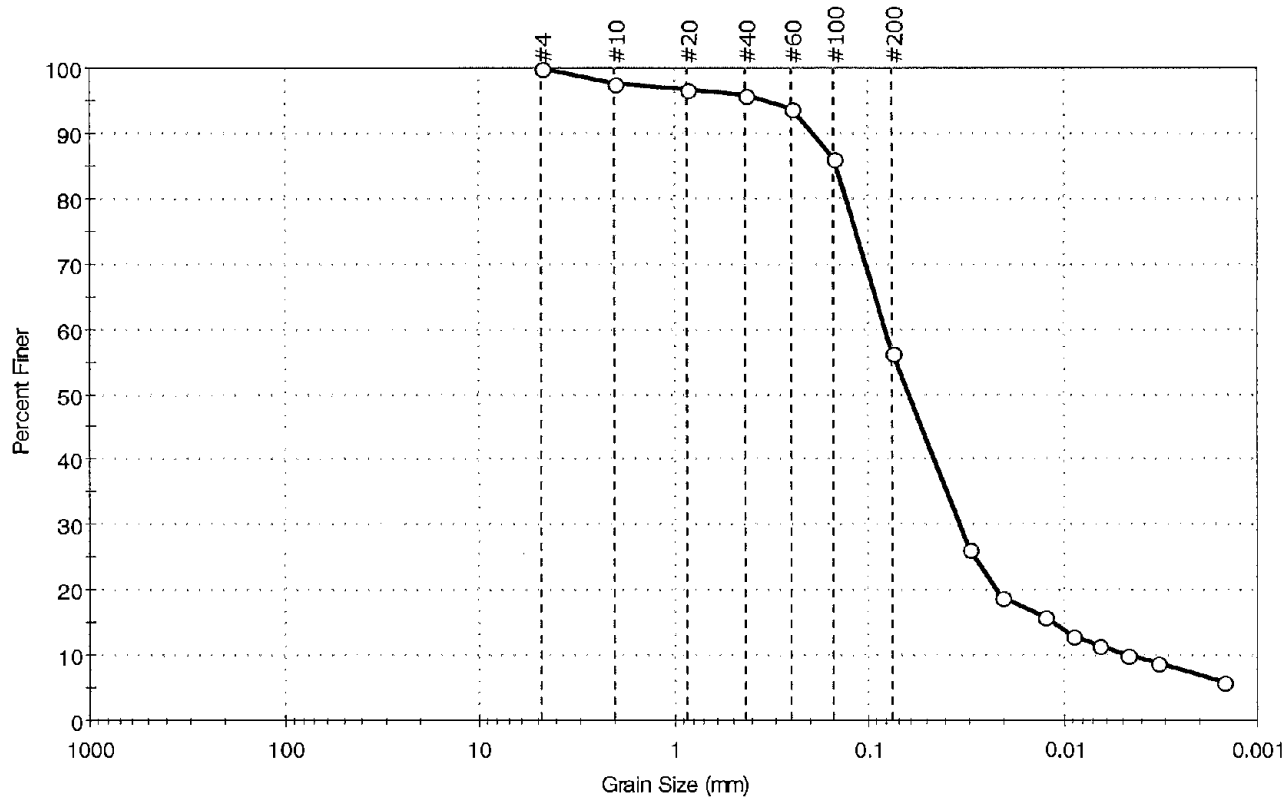
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-13_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252686		

Test Comment: ---
Sample Description: Wet, dark brown sandy silt
Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	43.6	56.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	98		
#20	0.85	97		
#40	0.42	96		
#60	0.25	94		
#100	0.15	86		
#200	0.075	56		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0303	26		
---	0.0209	19		
---	0.0124	16		
---	0.0090	13		
---	0.0066	12		
---	0.0047	10		
---	0.0033	9		
---	0.0015	6		

Coefficients

D_{85} =0.1464 mm D_{30} =0.0341 mm
D_{60} =0.0816 mm D_{15} =0.0112 mm
D_{50} =0.0619 mm D_{10} =0.0045 mm
C_u =N/A C_c =N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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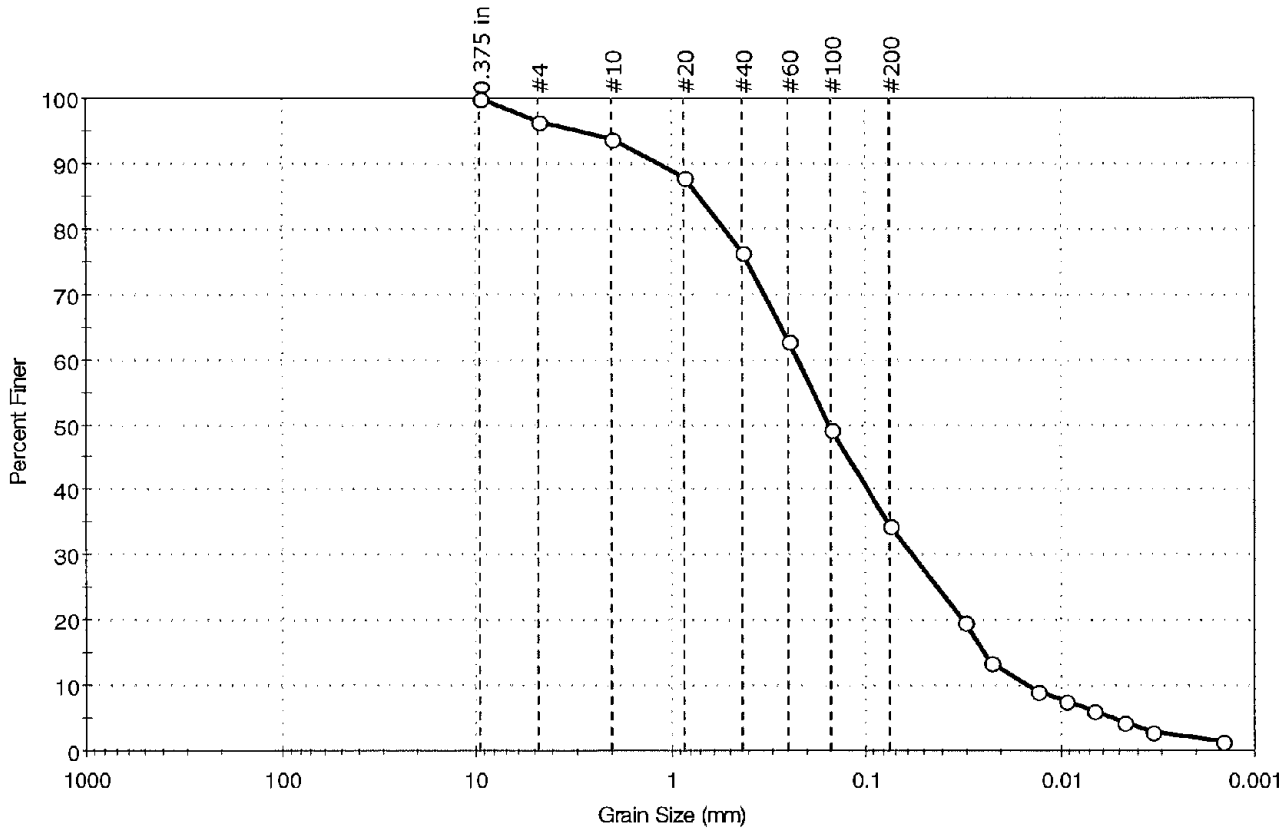
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-14_0-.3	Test Date: 10/26/12	Checked By:	jdt
Depth : ---	Test Id: 252687		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	3.5	61.8	34.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	96		
#10	2.00	94		
#20	0.85	88		
#40	0.42	76		
#60	0.25	63		
#100	0.15	49		
#200	0.075	35		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0312	20		
---	0.0226	14		
---	0.0131	9		
---	0.0094	8		
---	0.0067	6		
---	0.0047	5		
---	0.0034	3		
---	0.0015	2		

Coefficients

D_{85} = 0.7140 mm D_{30} = 0.0570 mm

D_{60} = 0.2249 mm D_{15} = 0.0243 mm

D_{50} = 0.1550 mm D_{10} = 0.0146 mm

C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

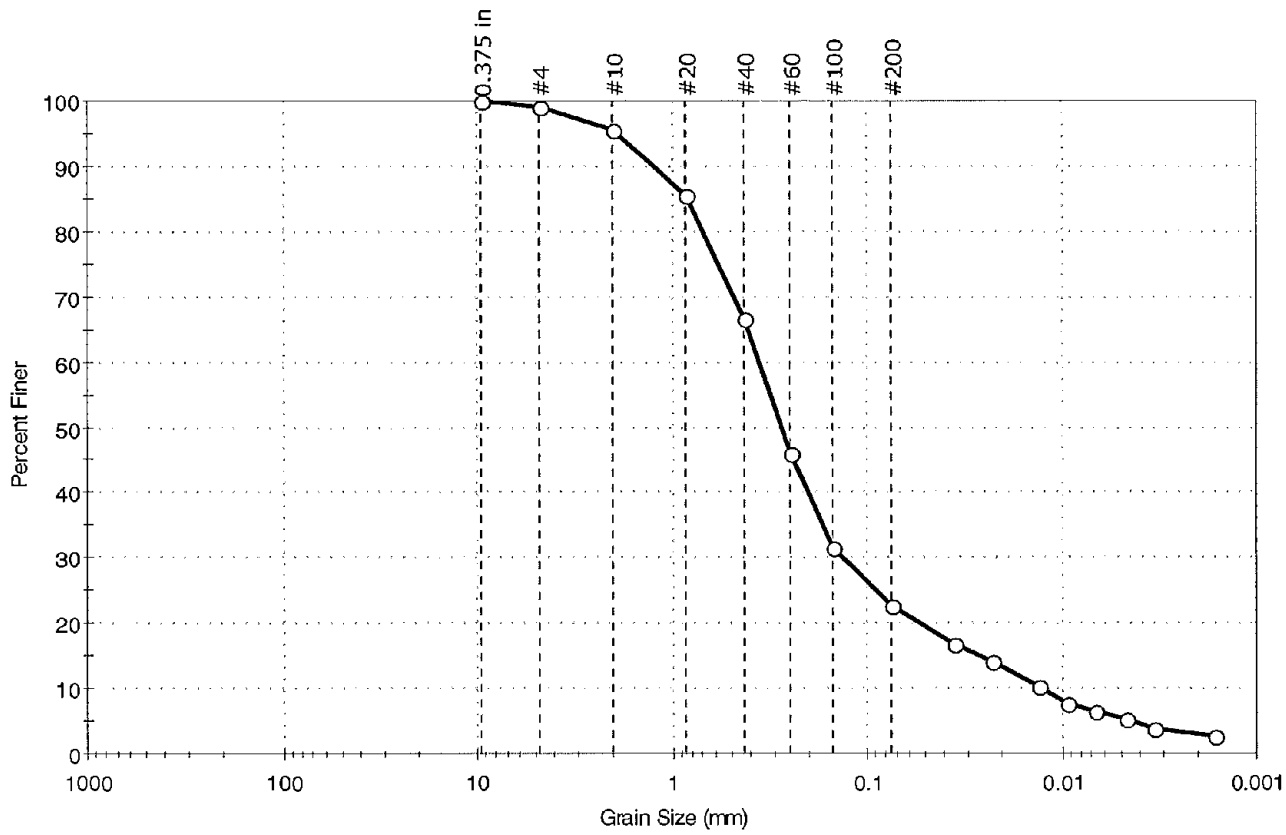
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-15_0-.3	Test Date: 10/25/12	Checked By:	jdt
Depth : ---	Test Id: 252688		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	----		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.8	76.6	22.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	96		
#20	0.85	85		
#40	0.42	67		
#60	0.25	46		
#100	0.15	32		
#200	0.075	23		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0358	17		
---	0.0227	14		
---	0.0132	10		
---	0.0094	8		
---	0.0067	6		
---	0.0047	5		
---	0.0034	4		
---	0.0017	3		

Coefficients

D_{85} =0.8368 mm D_{30} =0.1323 mm

D_{60} =0.3587 mm D_{15} =0.0257 mm

D_{50} =0.2774 mm D_{10} =0.0126 mm

C_u =N/A C_c =N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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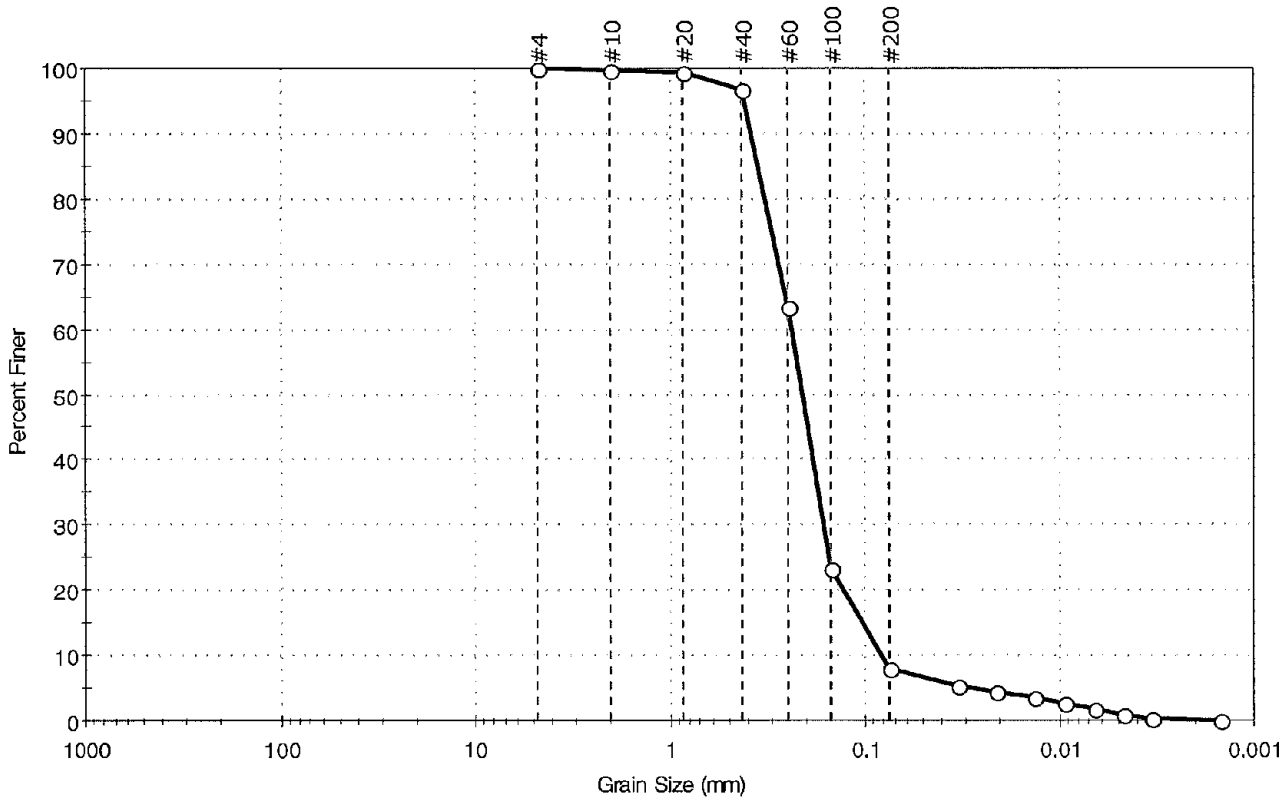
GeoTesting EXPRESS

Client:	Sanborn, Head & Associates		
Project:	Mohawk Tannery Southern Parcel		
Location:	Nashua, NH	Project No:	GTX-12337
Boring ID: ---	Sample Type: jar	Tested By:	jbr
Sample ID:MHK_SED-16_0-.3	Test Date: 10/29/12	Checked By:	jdt
Depth : ---	Test Id: 252689		
Test Comment: ---			
Sample Description:	Moist, grayish brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	92.0	8.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	97		
#60	0.25	64		
#100	0.15	23		
#200	0.075	8		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	5		
---	0.0211	4		
---	0.0135	4		
---	0.0095	3		
---	0.0066	2		
---	0.0047	1		
---	0.0034	0		
---	0.0015	0		

Coefficients

D_{85} = 0.3518 mm D_{30} = 0.1635 mm

D_{60} = 0.2391 mm D_{15} = 0.1032 mm

D_{50} = 0.2106 mm D_{10} = 0.0822 mm

C_u = 2.909 C_c = 1.360

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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APPENDIX B

Soil
Field Documentation

SDG Sample Tracking
Soil SDG 01

	Sample #	Date/Time Collected	Depth	Matrix	NHDES		USEPA						Alpha				USEPA CL			
					MT2-101		MT2-201						MT2-301				MT2-401			
					Param.	Method	Param.	Method	Param.	Method	Param.	Method	Param.	Method	Param.	Method	Param.	Method	Param.	Method
Trip Blank	TRIP BLANK	–	–	MeOH			VOCs	$VOAHS												
1	MHK_SS-107_0-.5, F0101, C0101	10/22/12 9:22	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
2	MHK_SS-107_1-2, F0102, C0102	10/22/12 9:38	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
3	MHK_SS-110_0-.5, F0103, C0103	10/22/12 9:55	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
4	MHK_SS-110_1-2, F0104, C0104	10/22/12 10:05	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
5	MHK_SS-116_0-.5, F0105, C0105	10/22/12 10:18	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
6	MHK_SS-116_1-2, F0106, C0106	10/22/12 10:28	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
7	MHK_SS-122_0-.5, F0107, C0107	10/22/12 11:28	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
8	MHK_SS-122_1-2, F0108, C0108	10/22/12 11:38	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
9	MHK_SS-137_0-.5, F0109, C0109	10/22/12 11:50	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
10	MHK_SS-137_1-2, F0110, C0110	10/22/12 11:58	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
11	MHK_SS-139_0-.5, F0111, C0111	10/22/12 12:10	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
12	MHK_SS-139_1-2, F0112, C0112	10/22/12 12:20	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
13	MHK_SS-141_0-.5, F0113, C0113	10/22/12 12:32	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
14	MHK_SS-143_0-.5, F0114, C0114	10/22/12 10:40	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
15	MHK_SS-147_0-.5, F0115, C0115	10/22/12 9:05	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
16	MHK_SS-149_0-.5, F0116, C0116	10/22/12 8:50	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM			Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
17	MHK_SS-111_0-.5, F0117, C0117	10/23/12 9:43	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
18	MHK_SS-111_1-2, F0118, C0118	10/23/12 9:50	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
19	MHK_SS-117_0-.5, F0119, C0119	10/23/12 10:49	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
20	MHK_SS-117_1-2, F0120, C0120	10/23/12 11:04	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
21	MHK_SS-138_0-.5, F0121, C0121	10/23/12 12:10	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
22	MHK_SS-138_1-2, F0122, C0122	10/23/12 12:24	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
23	MHK_SS-140_0-.5, F0123, C0123	10/23/12 12:39	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
Blind Dup. (MHK_SS-140_0-.5)	OW-101, OW-201, OW-301, OW-401 (F0131, C0131)	10/23/12 12:39	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
24	MHK_SS-140_1-2, F0124, C0124	10/23/12 12:52	1-2	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS					Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
25	MHK_SS-145_0-.5, F0125, C0125	10/23/12 9:04	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
26	MHK_SS-151_0-.5, F0126, C0126	10/23/12 10:09	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
27	MHK_SS-152_0-.5, F0127, C0127	10/23/12 10:20	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
28	MHK_SS-153_0-.5, F0128, C0128	10/23/12 10:37	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
29	MHK_SS-154_0-.5, F0129, C0129	10/23/12 11:16	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
30	MHK_SS-155_0-.5, F0130, C0130	10/23/12 11:30	0-0.5	SO	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Asbestos	PLM	Hex Cr, Eh, pH	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2
PE	SRS1474	10/23/12 12:20	–	SO									Hex Cr	7196A						
PE	MS01708	10/23/12 12:20	–	SO											Total Cr	6010C				
PE	MLV0081	10/23/12 12:20	–	SO			VOCs	$VOAHS												
PE	SS2132	10/23/12 12:20	–	SO					SVOCs	$BNAMS										
PE	PC1010	10/23/12 12:20	–	SO													Dioxins/Furans	DLM02.2		
PE	DS00324	10/23/12 12:20	–	SO													Dioxins/Furans	DLM02.2		
PE	C0033	10/23/12 12:20	–	SO															PCB Congeners	CBC01.2
Eqpt. Blank	EQUIP BLANK F0132, C0132 (Stainless Steel Hand Tools)	10/23/12 13:30	–	Aq	Metals	200.7/200.8/7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Hex Cr	7196A	Total Cr	6010C	Dioxins/Furans	DLM02.2	PCB Congeners	CBC01.2

NHDES Metals: Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V

SDG Sample Tracking
Soil SDG 02-04

	Sample #	Date/Time Collected	Depth	Matrix	NHDES		USEPA		Alpha	
					MT2-102		MT2-202		MT2-302	
					Parameters	Method	Parameters	Method	Parameters	Method
1	MHK_SS-101_0-.5	10/23/12 14:05	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
2	MHK_SS-102_0-.5	10/23/12 14:12	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
3	MHK_SS-103_0-.5	10/23/12 14:33	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
4	MHK_SS-104_0-.5	10/23/12 14:19	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
5	MHK_SS-105_0-.5	10/23/12 14:37	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
6	MHK_SS-106_0-.5	10/23/12 14:49	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
7	MHK_SS-108_0-.5	10/23/12 14:57	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
8	MHK_SS-109_0-.5	10/23/12 15:05	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
9	MHK_SS-112_0-.5	10/23/12 15:15	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
10	MHK_SS-113_0-.5	10/23/12 15:55	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
11	MHK_SS-114_0-.5	10/23/12 15:47	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
Blind Dup. (MHK_SS-114_0-.5)	OW-102, OW-202, OW-302	10/23/12 15:47	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
12	MHK_SS-115_0-.5	10/23/12 15:25	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
	Sample #	Date/Time Collected	Depth	Matrix	NHDES		USEPA		Alpha	
					MT2-103		MT2-203		MT2-303	
					Parameters	Method	Parameters	Method	Parameters	Method
1	MHK_SS-118_0-.5	10/24/12 14:58	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
2	MHK_SS-119_0-.5	10/24/12 14:15	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
3	MHK_SS-120_0-.5	10/24/12 15:07	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
4	MHK_SS-121_0-.5	10/24/12 15:35	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
5	MHK_SS-123_0-.5	10/24/12 15:26	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
6	MHK_SS-124_0-.5	10/24/12 14:32	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
7	MHK_SS-125_0-.5	10/24/12 14:05	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
8	MHK_SS-126_0-.5	10/24/12 13:46	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
9	MHK_SS-127_0-.5	10/24/12 13:12	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
10	MHK_SS-128_0-.5	10/24/12 13:27	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
11	MHK_SS-129_0-.5	10/24/12 13:02	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
Blind Dup. (MHK_SS-129_0-.5)	OW-103, OW-203, OW-303	10/24/12 13:02	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
12	MHK_SS-130_0-.5	10/24/12 12:43	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
	Sample #	Date/Time Collected	Depth	Matrix	NHDES		USEPA		Alpha	
					MT2-104		MT2-204		MT2-304	
					Parameters	Method	Parameters	Method	Parameters	Method
1	MHK_SS-131_0-.5	10/24/12 11:22	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
2	MHK_SS-132_0-.5	10/24/12 11:11	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
3	MHK_SS-133_0-.5	10/24/12 10:57	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
Blind Dup. (MHK_SS-133_0-.5)	OW-104	10/24/12 10:57	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
4	MHK_SS-134_0-.5	10/24/12 10:40	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
5	MHK_SS-135_0-.5	10/24/12 10:30	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
6	MHK_SS-136_0-.5	10/24/12 10:21	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
7	MHK_SS-142_0-.5	10/24/12 10:06	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
8	MHK_SS-144_0-.5	10/24/12 9:46	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
9	MHK_SS-146_0-.5	10/24/12 9:32	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
10	MHK_SS-148_0-.5	10/24/12 9:15	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C
11	MHK_SS-150_0-.5	10/24/12 9:02	0-0.5	SO	Metals	200.7/200.8/7471A	Asbestos	PLM	Total Cr	6010C

NHDES Metals: Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V

SDG Sample Tracking
Soil SDG 05

	Sample #	Date/Time Collected	Depth	Matrix	USEPA MT2-205	
					Parameters	Method
66	MHK_SS-156_0-.5	10/22/12 14:20	0-0.5	SO	Asbestos	PLM
67	MHK_SS-157_0-.5	10/22/12 14:28	0-0.5	SO	Asbestos	PLM
68	MHK_SS-158_0-.5	10/22/12 14:37	0-0.5	SO	Asbestos	PLM
69	MHK_SS-159_0-.5	10/22/12 14:51	0-0.5	SO	Asbestos	PLM
70	MHK_SS-160_0-.5	10/22/12 15:02	0-0.5	SO	Asbestos	PLM
Blind Dup. (MHK_SS-160_0-.5)	OW-205	10/22/12 15:02	0-0.5	SO	Asbestos	PLM
71	MHK_SS-161_0-.5	10/22/12 15:15	0-0.5	SO	Asbestos	PLM
72	MHK_SS-162_0-.5	10/22/12 15:24	0-0.5	SO	Asbestos	PLM
73	MHK_SS-163_0-.5	10/22/12 15:35	0-0.5	SO	Asbestos	PLM
74	MHK_SS-164_0-.5	10/22/12 13:15	0-0.5	SO	Asbestos	PLM
75	MHK_SS-165_0-.5	10/22/12 13:25	0-0.5	SO	Asbestos	PLM
76	MHK_SS-166_0-.5	10/22/12 13:39	0-0.5	SO	Asbestos	PLM
77	MHK_SS-167_0-.5	10/22/12 13:50	0-0.5	SO	Asbestos	PLM

Surficial Soil Field Sampling Summary

Sampler's Signature: [illegible]

SANBORN HEAD	Project Number: 2158.01	Date: 10/22/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	

PID Meter: MiniRAE 3000 (10.6 eV Bulb)	Project Manager: T. White
Sampling Equipment: Stainless steel Hand Auger, bowl, scoop	Collector(s): M. Stein, A. Khandekar, K. Dubois
Other: —	Weather: Sunny, 52s

Field Measurements

Sampling Location	MHK-SS-149-0-.5	MHK-SS-147-0-.5	MHK-SS-107-0-.5	MHK-SS-107-1-2	MHK-SS-141-0-.5
Sampling Depth Interval (ft bgs)	0-0.5'	0-0.5	0-0.5	1-2'	0-0.5
Sampling Time	08:50	09:05	09:22	09:38	12:32
PID (ppm)	1.1	Ø	0.2	1.3	0.3
Sample Odor	none	none	none	none	none [illegible] 10/22/12
Sample Color	Brown	Dark Brown	Brown	Light Brown	Brown
Burmeister Soil Description	Fine SAND and Silt. Upper 0.2' TOPSOIL. moist.	Clayey SILT, trace fine to medium Sand, rootlets common. moist.	Fine SAND and Silt, few Rootlets. Moist	Fine SAND, little Silt. Moist.	Fine SAND, Some Silt. Moist.
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature: [illegible]

SANBORN HEAD	Project Number: 2158.01	Date: 10/22/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 (10.6 eV bulb)		Project Manager: T. White
Sampling Equipment: SS Hand Auger, bowl, scoop		Collector(s): M. Stein, A. Khandekar, K. Dubois
Other: —		Weather: Sunny, 50s

Field Measurements

Sampling Location	MHK-SS-110-0-.5	MHK-SS-110-1-2	MHK-SS-116-0-.5	MHK-SS-116-1-2	MHK-SS-143-0-.5
Sampling Depth Interval (ft bgs)	0-0.5'	1-2'	0-0.5	1-2'	0-0.5'
Sampling Time	09:55	10:05	10:18	10:28	10:40
PID (ppm)	1	0.2	0.6	0.4	0.2
Sample Odor	None	None	None	None	None
Sample Color	Brown	Light Brown	Brown	Light Brown	Brown
Burmeister Soil Description	Fine SAND and Silt. Moist.	Fine SAND Little Silt. Moist	Fine SAND and Silt. Moist.	Fine SAND, Some Silt. Moist.	Fine SAND and Silt, rootlets common. Upper 0.1' TOPSOIL. Moist.
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature: [illegible]

SANBORN HEAD	Project Number: 2158.01	Date: 10/22/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	
PID Meter: Mini RAE 3000 (10.6 eV bulb)	Project Manager: T. White	
Sampling Equipment: SS Hand Auger, bowl, scoop	Collector(s): M. Stein, A. Khandekar, K. Dubois	
Other: –	Weather: Sunny, 50s	

Field Measurements

Sampling Location	MHK-SS-122-0-.5	MHK-SS-122-1-2	MHK-SS-137-0-.5	MHK-SS-137-1-2	
Sampling Depth Interval (ft bgs)	0-0.5	1-2'	0-0.5	1-2'	
Sampling Time	11:28	11:38	11:50	11:58	
PID (ppm)	0.4	0.3	0.4	0.3	
Sample Odor	None	None	None	None	
Sample Color	Brown	Brown	Brown	Brown	
Burmeister Soil Description	Fine SAND, some Silt. moist.	Fine SAND and Silt. moist.	Fine to medium SAND, some Silt, trace Gravel. moist.	Fine to Coarse SAND, some Silt, trace Gravel. moist	
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature: [illegible]

SANBORN HEAD	Project Number: 2158.01	Date: 10/22/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	

PID Meter: MiniRAE 3000 (10.6 eV bulb)	Project Manager: T. White
Sampling Equipment: SS Hand Auger, bowl, scoop	Collector(s): M. Stein, A. Khandekar, K. Dubois
Other:	Weather: Sunny, 50s

Field Measurements

Sampling Location	MHK-SS-139-0-.5	MHK-SS-139-1-2			
Sampling Depth Interval (ft bgs)	0-0.5'	1-2'			
Sampling Time	12:10	12:20			
PID (ppm)	0.3	0.3			
Sample Odor	~~Br~~ None	none			
Sample Color	Brown	Brown			
Burmeister Soil Description	SILT and fine Sand, few rootlets Moist.	Fine SAND and Silt, trace Gravel. Moist.			
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature: AVK

SANBORN HEAD	Project Number: 2158.01	Date: 10.22.12
	Project Name: Fmr Mohawk Tannery.	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6 eV Bulb	Project Manager: Tim White.	
Sampling Equipment: AMS Hand Auger	Collector(s): Matt Stein, A. Khandekar	
Other: SS Bowl & Scoop	Weather: ~70°F, Sunny	

Field Measurements

Sampling Location	SS-164	SS-165	SS-166	SS-167	—
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	
Sampling Time	1315	1325	1339	1350	
PID (ppm)	0.4	0.5	0.7	0.9	
Sample Odor	None	None	None.	None	
Sample Color	Dark. Brown	Brown	Dark. Brown	Dark. Brown	
Burmeister Soil Description	~~Dr~~ AVK Fine to Medium Sand, Some silt, trace fine Gravel, Very Few Rootlets, Moist	Fine to Coarse sand, Some Silt, trace Fine Gravel, very few Rootlets, Moist.	Fine to medium Sand, Some Silt, trace Fine Gravel, Very Few Rootlets, Moist	Silt, Some Fine to Coarse Sand, trace Fine Gravel, Very Few Rootlets Moist.	
Other	—	—	—	—	
Comment Reference Number	—	—	—	—	

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature: AVK

SANBORN HEAD	Project Number: 2158.01	Date: 10.22.12
	Project Name: Fmr. Mohawk Tannery	
	Project Location:	
PID Meter: MiniRAE 3000 with 10.6 eV lamp	Project Manager: Tim White	
Sampling Equipment: Ams Hand Augers	Collector(s): M. Stein, A. Khandekar	
Other: SS Scoops & SS Bowl	Weather: 70°F, Sunny	

Field Measurements

Sampling Location	SS-156	SS-157	SS-158	SS-159	—
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	
Sampling Time	1420	1428	1437	1451	
PID (ppm)	0.5	0.2	0.7	0.4	
Sample Odor	None	None.	None	None	
Sample Color	Brown	Brown	Brown.	Dk. Brown.	
Burmeister Soil Description	Fine Sand and Silt, Tr. Fine Gravel moist.	Silt and Fine Sand, Trace Fine Gravel, Very Few Fragments Presumed Transciets	Fine to Coarse Sand, Some Silt, Trace Fine Gravel, Very few Brick Particles Moist	Silt, Some Fine to Coarse Sand, Trace Fine Gravel, Plastic Sheeting observed, moist	
Other	—	moist	—	—	
Comment Reference Number	—	—	—	—	1 AVK

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature: AVK

SANBORN HEAD	Project Number: 2158.01	Date: 10.22.12
	Project Name: Fmr. Mohawk Tannery	
	Project Location: Nashua, NH.	
PID Meter: MiniRAE 3000 with 10.6 eV lamp	Project Manager: Tim White	
Sampling Equipment: AMS Hand Augers.	Collector(s): M. Stein, A. Khandekar	
Other: SS Bowl & Scoop	Weather: 70°F, Sunny	

Field Measurements

Sampling Location	SS-160	SS-161	SS-162	SS-163	—
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	
Sampling Time	1502	1515	1524	1535	
PID (ppm)	1.2	0.3	0.3	0.4	
Sample Odor	None.	None	None	None	
Sample Color	Brown	Brown	Brown	Brown.	
Burmeister Soil Description	Fine to medium Sand, Some Silt, Trace Fine Gravel Moist	Fine to medium Sand, and Silt, Trace Fine Gravel, Very few Rootlets, moist	Fine to medium Sand, some Silt, Trace Fine Gravel, Very few Rootlets, Very few Fragments Presumed Transciets, moist	Fine to Coarse Sand, little Silt, Trace Fine Gravel, moist	→ Very few Rootlets.
Other	—	—	—	—	
Comment Reference Number	1	—	—	—	

Comments

1. OW-205 collected as Duplicate Sample.
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Hex. CV locations.

Surficial Soil Field Sampling Summary

Sampler's Signature: AVK

SANBORN HEAD	Project Number: 2158.01	Date: 10-23-12
	Project Name: Fmr. Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6 eV bulb	Project Manager: T. White	
Sampling Equipment: AMS MTS Hand Augers	Collector(s): MTS, DJD, AVK	
Other: SS scoops & Bowl	Weather: 60°F, Sunny	

Field Measurements

Sampling Location	SS-145	SS-111	SS-111	SS-151	SS-152
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	1-2	0-0.5	0-0.5
Sampling Time	0904	0943	0950	1009	1020
PID (ppm)	0.4	1.2	1.6	0.9	0.6
Sample Odor	none	none	none	none	none
Sample Color	Brown	Brown	l. brown	l. brown	l. brown
Burmeister Soil Description	F. Sand, some Silt. Frequent rootlets. Moist	F. sand and Silt. ~~Frequent~~ MTS Rootlets common. Topsoil upper 0.1' recov. Moist	F. sand some Silt. Moist	F. sand, some Silt Moist	F. sand some Silt, Moist
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/23/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 w/ 10.6 eV bulb	Project Manager: TMW	
Sampling Equipment: AMS Hand Auger	Collector(s): MTS AVK, DJD	
Other: Stainless steel bowl + scoop	Weather: M. cloudy, T~55	

Field Measurements

Sampling Location	SS-153	SS-117	SS-117	SS-154	SS-155
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	1-2	0-0.5	0-0.5
Sampling Time	1037	1049	1104	1116	1130
PID (ppm)	1.0	0.3	0.4	0.3	0.1
Sample Odor	none	none	none	none	none
Sample Color	D. brown	l. brown	l. brown	D. brown	Brown
Burmeister Soil Description	F. sand and Silt. V. few rootlets. Moist	F. sand some Silt. Moist	F. sand some Silt. Moist	F. Sand and Silt Moist	Silt and F. Sand. Moist
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/23/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: Mini RAE 3000 with 10.6 eV bulb	Project Manager: TMW	
Sampling Equipment: AMS Hand Auger	Collector(s): MTS, AVK, DJD	
Other: Stainless steel bowl + Scoop	Weather: p. Sunny, T~60°F	

Field Measurements

Sampling Location	SS-138	SS-138	SS-140	SS-140	Equip Blank
Sampling Depth Interval (ft bgs)	0-0.5	1-2	0-0.5	1-2	-
Sampling Time	1210	1224	1239	1252	1330
PID (ppm)	0.3	0.4	0.1	0.7	-
Sample Odor	none	none	none	none	-
Sample Color	Brown	Brown	Brown	L. brown	-
Burmeister Soil Description	Silt, little f-m Sand, tr f. gravel. V. few rootlets. Moist	SILT, some f-m Sand. V. few rootlets. Moist	Silt, some f. sand. Upper 0.2 topsoil. Moist	Fine SAND + SILT. Moist	-
Other					
Comment Reference Number			1		2

Comments

1. Duplicate Sample collected (OW-)
2.
3. Equipment blank sample collected (Equip Blank)
4.
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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/23/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6 eV bulb		Project Manager: TMW
Sampling Equipment: AMS hand auger		Collector(s): MTS, AVK, DJD
Other: Stainless steel bowl + scoop		Weather: M. Sunny, T~ 65°F

Field Measurements

Sampling Location	SS-101	SS-102	SS-104	SS-103	SS-105
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sampling Time	1405	1412	1419	1433	1437
PID (ppm)	1.5	0.3	2.0	5.1	0.3
Sample Odor	none	none	none	none	none
Sample Color	Brown	Brown	Brown	Brown	Brown
Burmeister Soil Description	f. SAND, Some Silt V. few rootlets. Moist	f. SAND and Silt V. few rootlets Moist	Silt, little f. Sand Moist	Fine SAND and Silt. Moist	SILT and f. SAND few rootlets. Moist
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/23/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: Mini RAE 3000 with 10.6 eV lamp	Project Manager: TMW	
Sampling Equipment: AMS hand auger	Collector(s): MTS, AVK, DJD	
Other: Stainless steel bowl + scoop	Weather: M. Sunny, T~65°F	

Field Measurements

Sampling Location	SS-106	SS-108	SS-109	SS-112	SS-115
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sampling Time	1449	1457	1505	1515	1525
PID (ppm)	9.3	0.7	1.3	6.0	0.4
Sample Odor	none	none	none	none	none
Sample Color	Brown	Brown to Dark brown	Dark Brown	Brown	Brown
Burmeister Soil Description	SILT, little f. sand. V. few rootlets. Upper 0.1 topsoil	SILT, little f-m SAND, few rootlets. Earthworms observed Moist.	SILT, little f-m Sand. few rootlets. Moist	SILT and f. Sand. Few rootlets. Moist	Silt, little f sand. Rootlets common Moist
Other					
Comment Reference Number					

Comments

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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2152.01	Date: 10/23/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	

PID Meter: Mini RAE 3000 with 10.6 eV lamp	Project Manager: TMW
Sampling Equipment: AMS Hand Auger	Collector(s): MTS, AVK, DJD
Other: Stainless Steel bowl + scoop	Weather:

Field Measurements

Sampling Location	SS-113	SS-114			
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5			
Sampling Time	1555	1547			
PID (ppm)	0.7	0.4			
Sample Odor	none	none			
Sample Color	Brown	Dark Brown			
Burmeister Soil Description	Brown Silt, little f-m Sand. Few Rootlets Moist.	Fine to medium SAND, Some Silt, trace f. gravel. V. few rootlets.			
Other					
Comment Reference Number		1			

Comments

1. Duplicate Sample collected (OW-)
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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/24/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6 eV bulb	Project Manager: TMW	
Sampling Equipment: AMS hand auger	Collector(s): MTS, REW	
Other: Stainless Steel bowl + Scoop	Weather: clear, T ~ 45°F	

Field Measurements

Sampling Location	SS-150	SS-148	SS-146	SS-144	SS-142
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sampling Time	0902	0915	0932	0946	1006
PID (ppm)	1.1	0.3	0.1	0.2	0.3
Sample Odor	none	none	none	none	none
Sample Color	Brown	Brown	Brown	Brown	L. Brown
Burmeister Soil Description	Fine SAND and Silt, Few rootlets Upper 0.1' topsoil. Moist	Fine SAND and Silt. Rootlets common. Upper 0.2' topsoil. Moist	F. SAND and SILT Rootlets common. Upper 0.2' topsoil. Moist	F. SAND, Some Silt. V. few rootlets. Moist	Fine SAND, little Silt
Other					
Comment Reference Number					

Comments

1.
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7.
8.

Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/24/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6 eV bulb		Project Manager: TMW
Sampling Equipment: AMS hand auger		Collector(s): MTS, REW
Other: Stainless steel bowl + scoop		Weather: clear, T~50°F

Field Measurements

Sampling Location	SS-136	SS-135	SS-134	SS-133	SS-132
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sampling Time	1021	1030	1040	1057	1111
PID (ppm)	0.2	0.3	0.2	1.5	0.1
Sample Odor	none	none	none	none	none
Sample Color	Brown	Brown	Brown	Dark Brown	Dark Brown
Burmeister Soil Description	Fine to Medium SAND, little Silt. Moist	F-C SAND, Some Silt. Moist	F-M SAND and Silt. Moist	F-M SAND and Silt Few rootlets & leaf litter. Moist	Fine to Medium SAND, Some Silt. V. few rootlets. Moist
Other					
Comment Reference Number				1	

Comments

1. Duplicate sample collected (OW-)
2.
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6.
7.
8.

Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/24/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6eV bulb	Project Manager: TMW	
Sampling Equipment: AMS hand auger	Collector(s): MTS, REW	
Other: Stainless steel bowl + scoop	Weather: clear, T~55°F	

Field Measurements

Sampling Location	SS-131				
Sampling Depth Interval (ft bgs)	0-0.5				
Sampling Time	1122				
PID (ppm)					
Sample Odor	None				
Sample Color	Brown				
Burmeister Soil Description	f-c SAND, some Silt. V. few rootlets. Moist				
Other					
Comment Reference Number					

Comments

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7.
8.

Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/24/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6 eV bulb	Project Manager: TMW	
Sampling Equipment: AMS Hand auger	Collector(s): MTS, REW	
Other: Stainless steel bowl + scoop	Weather: p. Sunny, T~60°F	

Field Measurements

Sampling Location	SS-130	SS-129	SS-127	SS-128	SS-126
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-05	0-0.5
Sampling Time	1243	1302	1312	1327	1346
PID (ppm)	0.0	0.0	0.2	0.3	0.2
Sample Odor	none	none	none	none	none
Sample Color	Brown	Brown	Brown	Brown	D. brown
Burmeister Soil Description	f-m SAND, some Silt. V. few rootlets. Moist	f-m SAND and Silt. Few rootlets. Moist	f-c SAND Some f. gravel, little Silt. Moist.	Silt, Some f-m Sand. V. few rootlets Moist	Silt, Some f-m Sand. Few rootlets. Moist
Other					
Comment Reference Number		1			

Comments

1. Duplicate Sample collected (OW-103, OW-203, OW-303)
2.
3.
4.
5.
6.
7.
8.

Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/24/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: Mini RAE 3000 with 10.6eV bulb		Project Manager: TMW
Sampling Equipment: AMS Hand Auger		Collector(s): MTS, REW
Other: Stainless steel bowl + scoop		Weather: p. sunny, T~60°F

Field Measurements

Sampling Location	SS-125	SS-119	SS-124	SS-118	SS-120
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sampling Time	1405	1415	1432	1458	1507
PID (ppm)	0.2	1.0	0.0	0.0	0.0
Sample Odor	None	none	None	None	None
Sample Color	Brown	Dark Brown	Brown	Brown	
Burmeister Soil Description	SILT, little f-m Sand, trace gravel. V. few rootlets. Moist	Clayey SILT, little f-m Sand. Rootlets Common V. Moist	Fine to Coarse SAND, some Silt. Trace f. Gravel. A brick fragment observed. Moist	SILT, ~~Some~~ MTS little f. SAND. V. few rootlets. Moist	SILT, some f. Sand, V. few rootlets. Moist
Other					
Comment Reference Number					

Comments

1.
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3.
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Surficial Soil Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date:
	Project Name: Former Mohawk Tannery	
	Project Location: Nashua, NH	
PID Meter: MiniRAE 3000 with 10.6eV bulb		Project Manager: TMW
Sampling Equipment: AMS Hand Auger		Collector(s): MTS, REW
Other: Stainless steel bowl + scoop		Weather: P. Sunny, T~ 60°F

Field Measurements

Sampling Location	SS-123	SS-121			
Sampling Depth Interval (ft bgs)	0-0.5	0-0.5			
Sampling Time	1526	1535			
PID (ppm)	0.0	0.2			
Sample Odor	None	none			
Sample Color	Dk. Brown	D. Brown			
Burmeister Soil Description	SILT, little F. Sand, Few Rootlets. Moist	SILT and F. Sand, V. Few rootlets Moist			
Other					
Comment Reference Number					

Comments

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8.

SOIL SAMPLING PHOTOGRAPHS

No Photo Available

Photo 1: MHK_SS-101

Photo 2: MHK_SS-102

Photo 3: MHK_SS-103

Photo 4: MHK_SS-104

Photo 5: MHK_SS-105

Photo 6: MHK_SS-106

Photo 7: MHK_SS-107

Photo 8: MHK_SS-108

Photo 9: MHK_SS-109

Photo 10: MHK_SS-110

Photo 11: MHK_SS-111

Photo 12: MHK_SS-112

Photo 13: MHK_SS-113

Photo 14: MHK_SS-114

Photo 15: MHK_SS-115

Photo 16: MHK_SS-116

Photo 17: MHK_SS-117

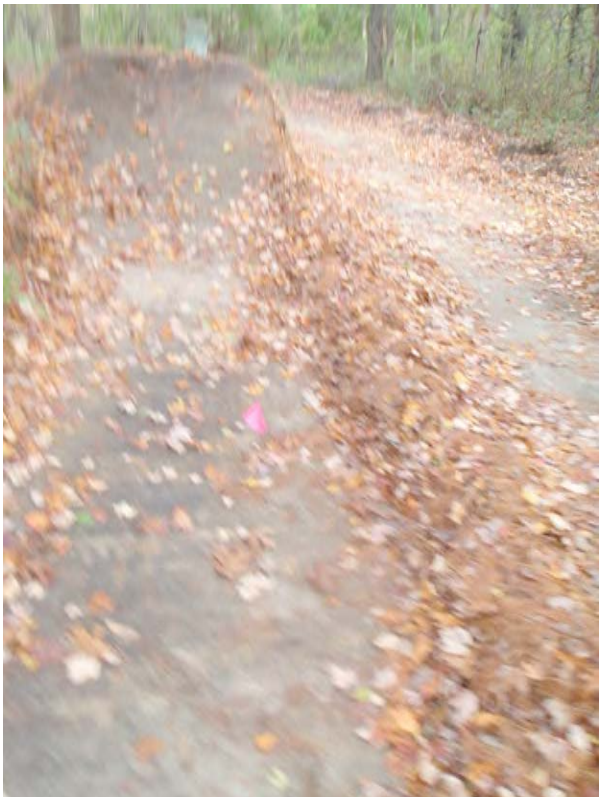

Photo 18: MHK_SS-117

Photo 19: MHK_SS-118

Photo 20: MHK_SS-119

Photo 21: MHK_SS-120

Photo 22: MHK_SS-121

Photo 23: MHK_SS-122

Photo 24: MHK_SS-123

Photo 25: MHK_SS-123

Photo 26: MHK_SS-124

Photo 27: MHK_SS-125

Photo 28: MHK_SS-126

Photo 29: MHK_SS-127

Photo 30: MHK_SS-128

Photo 31: MHK_SS-128

Photo 32: MHK_SS-129

Photo 33: MHK_SS-130

Photo 34: MHK_SS-131

Photo 35: MHK_SS-132

Photo 36: MHK_SS-133

Photo 37: MHK_SS-134

Photo 38: MHK_SS-135

Photo 39: MHK_SS-136

Photo 40: MHK_SS-137

Photo 41: MHK_SS-138

Photo 42: MHK_SS-139

Photo 43: MHK_SS-140

Photo 44: MHK_SS-141 and PZ-10

Photo 45: MHK_SS-142_PZ-09

No Photo Available

Photo 46: MHK_SS-143

Photo 47: MHK_SS-144 and PZ-07

Photo 48: MHK_SS-145 and PZ-06

Photo 49: MHK_SS-146 and PZ-05

Photo 50: MHK_SS-147 and PZ-04

Photo 51: MHK_SS-148 and PZ-03

Photo 52: MHK_SS-149 and PZ-02

Photo 53: MHK_SS-150 and PZ-01

Photo 54: MHK_SS-151_1

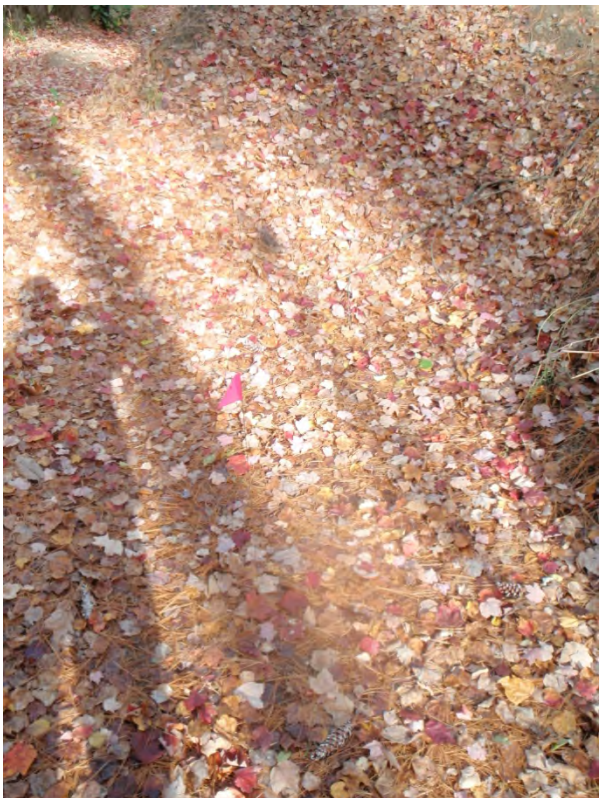

Photo 55: MHK_SS-151

Photo 56: MHK_SS-151_3

Photo 57: MHK_SS-152

Photo 58: MHK_SS-152

Photo 59: MHK_SS-153

Photo 60: MHK_SS-153

Photo 61: MHK_SS-154

Photo 62: MHK_SS-155

Photo 63: MHK_SS-155

Photo 64: MHK_SS-156

Photo 65: MHK_SS-157

Photo 66: MHK_SS-158

Photo 67: MHK_SS-159

Photo 68: MHK_SS-160

Photo 69: MHK_SS-161

Photo 70: MHK_SS-162

Photo 71: MHK_SS-163

Photo 72: MHK_SS-164

Photo 73: MHK_SS-165

Photo 74: MHK_SS-166

Photo 75: MHK_SS-167

S:\CONDATA\2100s\2158.01\Source Files\Report\Soil Photos.docx

Field Audit

Mohawk Tannery Southern Parcel
NHDES Site No. 198404002

Date: 10/22/12 **Audit Performed By:** Kelly M. Dubois

Signature: Kelly M. Dubois

Field Task: Soil Sampling **Personnel Audited:** M. Stein, A. Khandekar

Copy of SAP on-site? yes Copy of HWRB Master QAPP on-site? yes

Field instruments calibrated correctly? yes

Sampling SOP followed? yes

Modifications made to SOP? (discuss below) none

Decontamination completed correctly? yes

Field notebook completed correctly? yes

Field documentation completed correctly? yes

Chains-of-custody completed correctly? yes

Comments

Kelly M. Dubois

SANBORN HEAD

Calibration Form
MiniRAE 3000 (with 10.6 eV bulb)
(Purchased September 2012 - S/N: 592-907946)

Date	Time	Initials	Isobutylene Manufacturer, Lot #, Expiration Date	Isobutylene Conc. (ppmv)	Calibration Check Conc. (ppmv)	Job #	Site
10/8/12	0945	MTS	Pine, GAL-248-100-10, 6/17/15	100	99.8	2158.01	Mohawk Tannery - Nashua, NH
10/8/12	1554	MTS	"	"	94.7	"	"
10/19/12	1251	REW	"	"	100	"	"
10/19/12	1306	REW	"	"	101.8	"	"
10/22/12	0820	MTS	"	"	100.2	"	"
10/22/12	1547	MTS	"	"	99.3	"	"
10/23/12	0825	MTS	"	"	100.1	"	"
10/23/12	1624	MTS	"	"	103.1	"	"
10/24/12	0833	REW	"	"	100	"	"
10/24/12	1605	MTS	"	"	98.2	"	"

Note:
In general, the PID should be calibrated on a daily basis or at any time when the instrument calibration is in question.

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 12466

Order Number: SG011914

Date Shipped: 10/22/2012

AirBill No(s): 417558963244

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. C
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712
FAX: 1-702-795-8210

To: VICKI MAYNARD
US EPA REGION I
11 TECHNOLOGY DRIVE.
NORTH CHELMSFORD MA 01863
617-918-8614

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
MLV0081	200903	1	MEDIUM LEVEL VOLATILE SOIL PES	09-001
DS00324	415	1	DIOXIN/FURAN IN SOIL	01-003
PC1010	425	1	DIOXIN SOIL	09-002
MS01708	572	1	LOW/MED METALS IN SOIL	99-005
SRS1474	SR0567	1	HEXAVALENT CHROMIUM SOIL PES	SRPES
SS2132	363	1	SEMIVOLATILES IN SOIL	05-009
C0033	1668B	1	PCB CONGENERS IN SOIL	04-001

10.22.12

SUPERFUND SITE NAME: MOHAWK TANNERY

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10.22.12		10/23/12 12:20
Custody Seal(s): Present/Absent present	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

QATS Form 20-008F053R01 07-31-2012

Certificate of Analysis

Lot Number:	90712-27
Description:	4oz Clear S/S Jar w/58mm PTFE Cap Certified (24 per cs)
Product Number:	04-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90912-27
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90712-27
Description:	4oz Clear S/S Jar w/58mm PTFE Cap Certified (24 per cs)
Product Number:	04-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90512-24
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90912-27
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90512-24
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90712-27
Description:	4oz Clear S/S Jar w/58mm PTFE Cap Certified (24 per cs)
Product Number:	04-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90912-27
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Scientific Products LLC
Where clean is critical

36 East B.J. Tunnell Blvd.
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE Glass **QA LEVEL** 1 **LOT NO.** 00049601

DESCRIPTION 123-32A; 950ml Amber Wide Mouth Packer

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5	Chromium	<10	Manganese	<10	Silver	<5
Arsenic	<2	Cobalt	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Copper	<5	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Iron	<50	Potassium	<750	Thallium	<5
Cadmium	<1	Lead	<2	Potassium (all HDPE)	<100	Vanadium	<10
Calcium	<500					Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes , 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

Deborah Robinson

10/22/12 #2158.01 MTS AVK KMD

Mohawk Tannery
Nashua, NH

0601 MTS arrive SHA NH for equipment preparation
0631 AVK arrive SHA NH
0655 KMD arrive SHA NH
0716 - 0806 travel to Site
0806 Arrive on Site
weather: clear, T ~ 50°F
- Begin shallow soil sampling activities
1330 - 1630 TMW on Site to complete surveying of sampling locations
1630 MTS/AVK/KMD depart Site
Δ weather ~ clear, T ~ 70°F

10/22/12 #2158.01 MTS

1710 Arrive SHA NH.
- Unload samples and field equipment

10/23/12 #2158.01 MTS AVK DJD

Mohawk Tannery
Nashua, NH

0606 MTS arrive SHA NH for equipment preparations
0645 AVK arrive SHA NH
- KMD/TMW assist with equipment prep
0710 MTS/AVK depart office
0803 Arrive on Site
- DJD already present at Site entrance → Assist with soil sampling activities
weather: clearing, T~47°F
0835 KMD on Site for shipping

10/23/12 #2158.01 MTS

1049 EPA - Gerardo Millan-Ramos
State - Robin Mongeon
City - Deb Chisolm
SHA - Chip Crocitti
1325 MTS prepare for Equipment Blank (labeled Equip Blank) collection of items used in soil sampling (AMS auger, stainless bowl & scoop)
1330 MTS/KMD collected Equip Blank
1520 KMD depart Site
1645 DTW TPVC to water surface at Nashua River Stilling well 2.5' (as measured by measuring tape)

26

10/23/12 #2158.01 MTS

1665 DJD depart Site

1654 MTS/AVK depart Site

- Second gate at the 2 locations requested by the State

1730 Arrive SHANH

Δ weather: m sunny T~65°F

- Unload field equipment at office

10/24/12 #2158.01

MTS
AVK
~~DJD~~ MTS
REW

Mohawk Tannery
Nashua, NH

0607 MTS arrive SHA NH
for equipment preparation
0640 AVK / REW arrive office
0710 Depart office
0800 Arrive on Site
weather: clear, T ~ 42°F
- Resume soil sampling
- AVK to recollect
VOCs / SVOCs from PZ-07
0825 DTW from TPVC at
Stilling Well in Nashua River
2.60'
- Following PZ-07 water collection

10/24/12 #2158.01 MTS

AVK to collect water levels from wells located in the Northern and southern parcels.

1600 MTS/REW completed soil sampling

1725 AVK complete complete water level round (excluding 4 that could not be located)

1730 Depart Site
Δ weather: partly sunny T~ 60-65°F

1805 Arrive office to unload field equipment

10/25/12 #2158.01 MTS AVK

Mohawk Tannery
Nashua, NH

0701 MTS arrive office for surveying equipment pup

0715 AVK arrive office

0730 Depart office

0832 Arrive on Site
weather: clear T~ 45°F
- Attempt to locate 4 mon. wells that could not be located the previous day

0953 1 of 4 mon. wells located
- Begin surveying activities

APPENDIX C

Sediment
Field Documentation

SDG Sample Tracking
Sediment SDGs

	Sample #	Date/Time Collected	Depth	Matrix	NHDES		USEPA				Alpha						USEPA CL				Geotesting Express
					MT2-111		MT2-211				MT2-311						MT2-411				MT2-611
					Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters
Trip Blank	TRIP BLANK	10/04/12 09:00	–	Aq			VOCs	$VOAHS													
1	MHK_SED-01_0-.3 F0001, C0001	10/08/12 10:44	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
2	MHK_SED-02_0-.3 F0002, C0002	10/08/12 10:59	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
3	MHK_SED-03_0-.3 F0003, C0003	10/08/12 11:14	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
4	MHK_SED-04_0-.3 F0004, C0004	10/08/12 11:29	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
5	MHK_SED-05_0-.3 F0005, C0005	10/08/12 11:44	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
6	MHK_SED-07_0-.3 F0007, C0007	10/08/12 12:07	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
7	MHK_SED-08_0-.3 F0008, C0008	10/08/12 12:24	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
8	MHK_SED-15_0-.3 F0015, C0015	10/08/12 13:54	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
9	MHK_SED-14_0-.3 F0014, C0014	10/08/12 14:10	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
10	MHK_SED-10_0-.3 F0010, C0010	10/08/12 14:30	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
11	MHK_SED-09_0-.3 F0009, C0009	10/08/12 14:44	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
12	MHK_SED-12_0-.3 F0012, C0012	10/08/12 15:00	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
13	MHK_SED-11_0-.3 F0011, C0011	10/08/12 15:14	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS			Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
14 (Background)	MHK_SED-16_0-.3 F0016, C0016	10/09/12 09:23	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Hex Cr, Eh, pH	7196A	Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
15	MHK_SED-13_0-.3 F0013, C0013	10/09/12 10:39	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Hex Cr, Eh, pH	7196A	Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
Blind Dup. (MHK_SED-13_0-.3)	OW-111, OW-211, OW-311, OW-411 (F0017, C0017)	10/09/12 10:39	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Hex Cr, Eh, pH	7196A	Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	
16	MHK_SED-06_0-.3 F0006, C0006	10/09/12 11:10	0-0.3	SE	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Hex Cr, Eh, pH	7196A	Total Cr	6010C	TOC	Lloyd Kahn	Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	Grain Size
Eqpt. Blank	EQUIP BLANK F0018, C0018 (Stainless Steel Hand Tools)	10/09/12 11:50	–	Aq	Metals	200.7/200.8/ 7471A	VOCs	$VOAHS	SVOCs	$BNAMS	Hex Cr	7196A	Total Cr	6010C			Dioxins/ Furans	DLM02.2	PCB Congeners	CBC01.2	
PE	SRS1434	10/09/12 12:20	–	SE							Hex Cr	7196A									
PE	MS01746	10/09/12 12:20	–	SE									Total Cr	6010C							
PE	VS0656	10/09/12 12:20	–	SE			VOCs	$VOAHS													
PE	SS2131	10/09/12 12:20	–	SE					SVOCs	$BNAMS											
PE	DS00323 (F0019)	10/09/12 12:20	–	SE													Dioxins/ Furans	DLM02.2			
PE	PC1056 (F0020)	10/09/12 12:20	–	SE													Dioxins/ Furans	DLM02.2			
PE	C0100 (C0019)	10/09/12 12:20	–	SE															PCB Congeners	CBC01.2	

NHDES Metals: Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V
The trip blank and all VOC samples were transported in one cooler.

Sediment Field Sampling Summary

Sampler's Signature: Kelly M Dubois

SANBORN HEAD		
	Project Number: 2158.01	Date: 10/8/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	
PID Meter: MiniRae 3000 (10.6 eV bulb)	Project Manager: T. White	
Other: Stainless Steel Bowl/Scoop	Collector(s): M. Stein, R. Welch, K. Dubois	
	Weather: p. Cloudy, 40s-50s °F	

Field Measurements

Sampling Location	MHK_Sed-01	MHK_Sed-02	MHK_Sed-03	MHK_Sed-04	MHK_Sed-05
Reference Point	—	—	—	—	—
Reference Point Elevation (feet)	—	—	—	—	—
Thickness of ~~Depth to~~ Surface Water (feet ~~below reference point~~)	1.40'	1.17'	1.22'	0.92'	0.95'
Surface Water Elevation (feet)	—	—	—	—	—
Depth to Sediment (feet below reference point)	—	—	—	—	—
TMW 10/19/12 Depth of Sample (inches ~~feet~~ (inches ~~below sediment surface, e.g. __ to __~~))	0-4" ~~0-0.3'~~	0-4" ~~0-0.3'~~	0-4" ~~0-0.3'~~	0-4" ~~0-0.3'~~	0-4" ~~0-0.3'~~
PID (ppm)	0.1	0.1	0.1	0.2	0.2
Sample Color	Brown	Brown	Brown	Brown	Brown
Burmeister Sediment Description KMD 10/8/12	Fine SAND, little ~~and~~ Silt. Wet.	Fine SAND, little Silt. Wet.	Fine SAND and Silt. Wet.	Fine SAND, Some Silt. Wet.	Fine SAND, Some Silt. Wet.
Date of Sample	10/8/12	10/8/12	10/8/12	10/8/12	10/8/12
Sample Time	10:44	10:59	11:14	11:29	11:44
Comment Reference Number					

Comments

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Sediment Field Sampling Summary

Sampler's Signature: Kelly M Dubois

SANBORN HEAD	Project Number: 2158.01	Date: 10/8/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	
PID Meter: MiniRae 3000 (10.6 eV bulb)	Project Manager: T. White	
Other: Stainless Steel Bowl/Scoop	Collector(s): M. Stein, R. Welch, K. Dubois	
	Weather: P. Cloudy, 40s-50s°F	

Field Measurements

Sampling Location	MHK-Sed-07	MHK-Sed-08	MHK-Sed-09	MHK-Sed-10	MHK-Sed-11
Reference Point	—	—	—	—	—
Reference Point Elevation (feet)	—	—	—	—	—
~~Depth to~~ Thickness of Surface Water ~~(feet below reference point)~~ feet	0.35'	0.27'	0.20'	0.25'	—
Surface Water Elevation (feet)	—	—	—	—	—
Depth to Sediment (feet below reference point)	—	—	—	—	—
Depth of Sample (inches below sediment surface; e.g., __ to __)	0-4"	0-4"	0-4"	0-4"	0-4"
PID (ppm)	0.2	0.2	0.1	0.2	0.2
Sample Color	Brown	Brown	Brown	Brown	Dark brown
Burmeister Sediment Description	Fine SAND, Some Silt. Wet.	Fine SAND, little Silt. Wet.	Fine SAND, little Silt. Wet.	Fine SAND, Some Silt. Wet.	Silt, not lots common. v. moist to wet
Date of Sample	10/8/12	10/8/12	10/8/12	10/8/12	10/8/12
Sample Time	12:07	12:24	14:44	14:30	15:14
Comment Reference Number					

Comments

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Sediment Field Sampling Summary

Sampler's Signature: [illegible]

SANBORN HEAD	Project Number: 2158.01	Date: 10/8/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	
PID Meter: MiniRae 3000 (10.6eV bulb)	Project Manager: T. White	
Other: Stainless Steel Bowl/Scoop	Collector(s): M. Stein, R. Welch, K. Dubois	
	Weather: P. Cloudy, 40s-50s °F	

Field Measurements

Sampling Location	MHK_Sed-12	MHK_Sed-14	MHK_Sed-15		
Reference Point	—	—	—		
Reference Point Elevation (feet)	—	—	—		
~~Depth to~~ Thickness of Surface Water ~~(feet below reference point)~~	—	—	—		
Surface Water Elevation (feet)	—	—	—		
Depth to Sediment (feet below reference point)	—	—	—		
Depth of Sample (inches below sediment surface; e.g., __ to __)	0-4"	0-4"	0-4"		
PID (ppm)	0.1	0.1	0.2		
Sample Color	Dark Brown	Dark Brown	Dark Brown		
Burmeister Sediment Description	Clayey SILT, trace fine Sand. Moist.	SILT, Some fine to medium Sand. Moist.	Fine to med. SAND, Some Silt. Moist.		
Date of Sample	10/8/12	10/8/12	10/8/12		
Sample Time	15:00	14:10	13:54		
Comment Reference Number					

Comments

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Sediment Field Sampling Summary

Sampler's Signature: Kelly M. Dubois

SANBORN HEAD KMD 10/9/12	Project Number: 2158.01	Date: 10/9/12	
	Project Name: Mohawk Tannery Southern Parcel		
	Project Location: Nashua, NH		
PID Meter: ~~X~~ MiniRae 3000 (10.6eV Bulb)	Project Manager: T. White		
Other: Stainless Steel Bowl/Scoop	Collector(s): R. Welch, K. Dubois		
	Weather:		

Field Measurements

Sampling Location	MHK_Sed-16	MHK_Sed-13	MHK_Sed-06	EQUIP BLANK	
Reference Point	—	—	—	—	
Reference Point Elevation (feet)	—	—	—	—	
Thickness of ~~Depth to~~ Surface Water ~~(feet below reference point)~~ feet	0.44'	—	0.35'	—	
Surface Water Elevation (feet)	—	—	—	—	
Depth to Sediment (feet below reference point)	—	—	—	—	
Depth of Sample (inches below sediment surface; e.g., __ to __)	0-4"	0-4"	0-4"	—	
PID (ppm)	0.2	0.2	0.3	—	
Sample Color	Brown	Dark Brown	Brown	—	
Burmeister Sediment Description	Fine ~~to~~ KMD 10/9/12 SAND, little Silt. Wet	Fine SAND and Silt. moist.	Fine SAND, little Silt. Wet.	—	
Date of Sample	10/9/12	10/9/12	10/9/12	10/9/12	
Sample Time	09:23	10:39	11:10	11:50	
Comment Reference Number		1			

Comments

1. Blind field duplicate collected.
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617 918 8614

SEDIMENT SAMPLING PHOTOGRAPHS

Photo 1: MHK_SED-01_0-.3 (Bank View)

Photo 2: MHK_SED-01_0-.3 (Upstream)

Photo 3: MHK_SED-01_0-.3 (Downstream)

Photo 4: MHK_SED-02_0-.3 (Bank View)

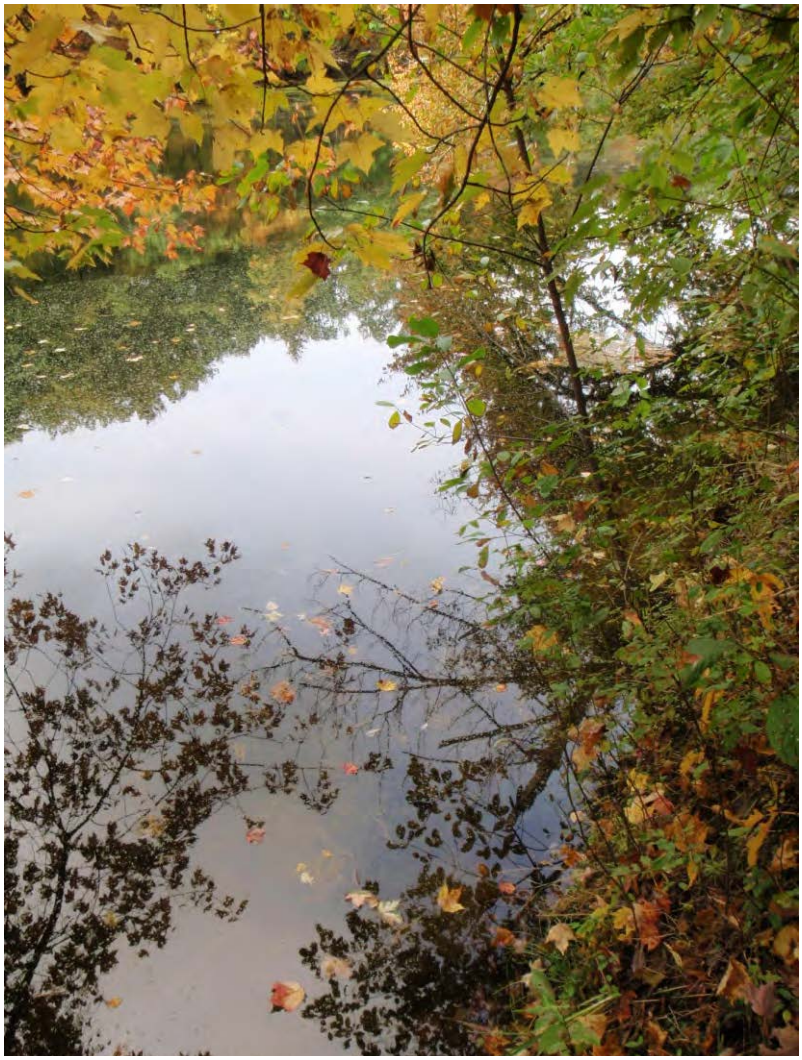

Photo 5: MHK_SED-02_0-.3 (Upstream)

Photo 6: MHK_SED-02_0-.3 (Downstream)

Photo 7: MHK_SED-03_0-.3 (Bank View)

Photo 8: MHK_SED-03_0-.3 (Upstream)

Photo 9: MHK_SED-03_0-.3 (Downstream)

Photo 10: MHK_SED-04_0-.3 (Bank View)

Photo 11: MHK_SED-04_0-.3 (Upstream)

Photo 12: MHK_SED-04_0-.3 (Downstream)

Photo 13: MHK_SED-05_0-.3 (Bank View)

Photo 14: MHK_SED-05_0-.3 (Upstream)

Photo 15: MHK_SED-05_0-.3 (Downstream)

Photo 16: MHK_SED-06_0-.3 (Looking Toward River)

Photo 17: MHK_SED-06_0-.3 (Looking Away From River)

Photo 18: MHK_SED-07_0-.3 (Bank View)

Photo 19: MHK_SED-07_0-.3 (Upstream)

Photo 20: MHK_SED-07_0-.3 (Downstream)

Photo 21: MHK_SED-08_0-.3 (Bank View)

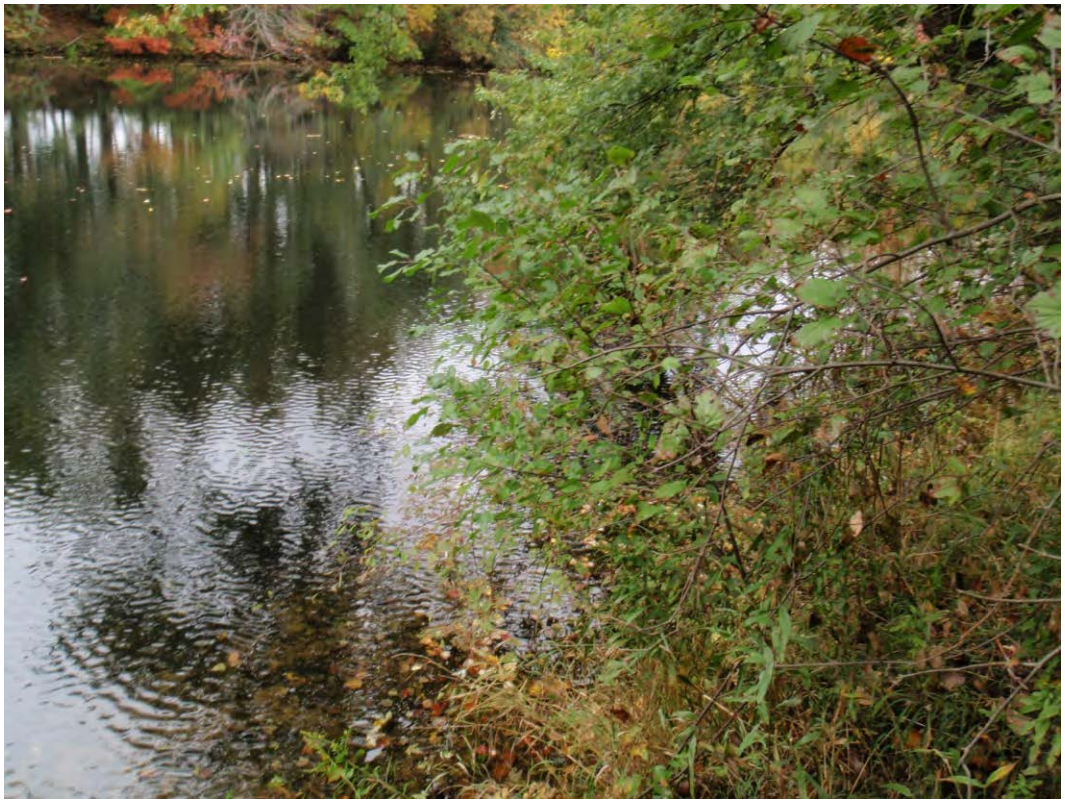

Photo 22: MHK_SED-08_0-.3 (Upstream)

Photo 23: MHK_SED-08_0-.3 (Downstream)

Photo 24: MHK_SED-09_0-.3 (Bank View)

Photo 25: MHK_SED-09_0-.3 (Upstream)

Photo 26: MHK_SED-10_0-.3 (Bank View)

Photo 27: MHK_SED-10_0-.3 (Upstream)

Photo 28: MHK_SED-10_0-.3 (Downstream)

Photo 29: MHK_SED-11_0-.3 (Southern Wetland)

Photo 30: MHK_SED-12_0-.3 (Southern Wetland)

Photo 31: MHK_SED-13_0-.3 (Northern Wetland)

Photo 32: MHK_SED-14_0-.3 (Northern Wetland)

Photo 33: MHK_SED-15_0-.3 (Northern Wetland)

Photo 34: MHK_SED-16_0-.3 (Background – Bank View)

S:\CONDATA\2100s\2158.01\Source Files\Report\Sediment Photos.docx

Field Audit

Mohawk Tannery Southern Parcel
NHDES Site No. 198404002

Date: 10/8/12

Audit Performed By: Kelly M. Dubois

Signature: Kelly M Dubois

Field Task: Sediment Sampling

Personnel Audited: M. Stein, R. Welch

Copy of SAP on-site? yes

Copy of HWRB Master QAPP on-site? yes

Field instruments calibrated correctly? yes

Sampling SOP followed? yes

Modifications made to SOP? (discuss below) no

Decontamination completed correctly? yes

Field notebook completed correctly? yes

Field documentation completed correctly? yes

Chains-of-custody completed correctly? yes

Comments

Kelly M Dubois

SANBORN HEAD

Calibration Form
MiniRAE 3000 (with 10.6 eV bulb)
(Purchased September 2012 - S/N: 592-907946)

Date	Time	Initials	Isobutylene Manufacturer, Lot #, Expiration Date	Isobutylene Conc. (ppmv)	Calibration Check Conc. (ppmv)	Job #	Site
10/8/12	0945	MTS	Pine, GAL-248-100-10, 6/17/15	100	99.8	2158.01	Mohawk Tannery - Nashua, NH
10/8/12	1554	MTS	"	"	94.7	"	"
10/19/12	1251	REW	"	"	100	"	"
10/19/12	1306	REW	"	"	101.8	"	"
10/22/12	0820	MTS	"	"	100.2	"	"
10/22/12	1547	MTS	"	"	99.3	"	"
10/23/12	0825	MTS	"	"	100.1	"	"
10/23/12	1624	MTS	"	"	103.1	"	"
10/24/12	0833	REW	"	"	100	"	"
10/24/12	1605	MTS	"	"	98.2	"	"

Note:
In general, the PID should be calibrated on a daily basis or at any time when the instrument calibration is in question.

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 12450

Order Number: SG011898

Date Shipped: 10/8/2012

AirBill No(s): 417558963093

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. C
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712
FAX: 1-702-795-8210

To: VICKI MAYNARD
US EPA REGION I
11 TECHNOLOGY DRIVE.
NORTH CHELMSFORD MA 01863
617-918-8614

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
MS01746	572	1	LOW/MED METALS IN SOIL	99-005
SS2131	363	1	SEMIVOLATILES IN SOIL	05-009
VS0656	357	1	LOW CONC. VOLATILES IN SOIL	05-008
C0100	1668B	1	PCB CONGENERS IN SOIL	04-001
SRS1434	SR0552	1	HEXAVALENT CHROMIUM	SRPES
DS00323	415	1	DIOXIN/FURAN IN SOIL	01-003
PC1056	425	1	DIOXIN SOIL	09-002

AC 10-8-12

SUPERFUND SITE NAME: MOHAWK TANNERY

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10-8-12 3:00 pm	Kelly M Parker	10/9/12 12:20
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Certificate of Analysis

Lot Number:	90312-20
Description:	8oz. Amber Straight Sided w/ 70mm PTFE Certified (24cs)
Product Number:	05-8SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90612-24
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90512-24
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

Certificate of Analysis

Lot Number:	90512-24
Description:	4oz Amber S/S Jar w/58mm PTFE Lined Cap Certified (24cs)
Product Number:	05-4SST243

This product was cleaned and tested in accordance with the U.S. EPA "Specifications and Guidance for Contaminant-free Sample Containers". In addition to the analytes listed below, it was also evaluated for the presence of non-targeted compounds.

	Result	Unit
ACID COMPOUNDS		
2,4,5-Trichlorophenol	<20	ug/L
2,4,6-Trichlorophenol	<5	ug/L
2,4-Dichlorophenol	<5	ug/L
2,4-Dimethylphenol	<5	ug/L
2,4-Dinitrophenol	<20	ug/L
2-Chlorophenol	<5	ug/L
2-Methylphenol	<5	ug/L
2-Nitrophenol	<5	ug/L
4,6-Dinitro-o-cresol	<20	ug/L
4-Chloro-3-methylphenol	<5	ug/L
4-Methylphenol	<5	ug/L
4-Nitrophenol	<20	ug/L
Pentachlorophenol	<20	ug/L
Phenol	<5	ug/L
BASE NEUTRALS		
1,2,4-Trichlorobenzene	<5	ug/L
1,2-Dichlorobenzene	<5	ug/L
1,3-Dichlorobenzene	<5	ug/L
1,4-Dichlorobenzene	<5	ug/L
2,4-Dinitrotoluene	<5	ug/L
2,6-Dinitrotoluene	<5	ug/L
2-Chloronaphthalene	<5	ug/L
2-Methylnaphthalene	<5	ug/L
2-Nitroaniline	<20	ug/L
3,3'-Dichlorobenzidine	<5	ug/L
3-Nitroaniline	<20	ug/L
4-Bromophenyl phenyl ether	<5	ug/L
4-Chloroaniline	<5	ug/L
4-Chlorophenyl phenyl ether	<5	ug/L
4-Nitroaniline	<20	ug/L
Acenaphthene	<5	ug/L
Acenaphthylene	<5	ug/L
Anthracene	<5	ug/L
Benzo(a)anthracene	<5	ug/L
Benzo(a)pyrene	<5	ug/L
Benzo(b)fluoranthene	<5	ug/L
Benzo(ghi)perylene	<5	ug/L
Benzo(k)fluoranthene	<5	ug/L
Bis(2-chloroethoxy)methane	<5	ug/L
Bis(2-Chloroethyl) ether	<5	ug/L
Bis(2-Chloroisopropyl) ether	<5	ug/L
Bis(2-Ethylhexyl)phthalate	<5	ug/L
Butylbenzylphthalate	<5	ug/L
Carbazole	<5	ug/L
Chrysene	<5	ug/L
Di-n-butylphthalate	<5	ug/L
Di-n-octylphthalate	<5	ug/L
Dibenz(a,h)anthracene	<5	ug/L
Dibenzofuran	<5	ug/L
Diethylphthalate	<5	ug/L

	Result	Unit
Dimethylphthalate	<5	ug/L
Fluoranthrene	<5	ug/L
Fluorene	<5	ug/L
Hexachlorobenzene	<5	ug/L
Hexachlorobutadiene	<5	ug/L
Hexachlorocyclopentadiene	<5	ug/L
Hexachloroethane	<5	ug/L
Indeno(1,2,3-cd)pyrene	<5	ug/L
Isophorone	<5	ug/L
N-Nitrosodi-n-propylamine	<5	ug/L
N-Nitrosodimethylamine	<5	ug/L
N-Nitrosodiphenylamine	<5	ug/L
Naphthalene	<5	ug/L
Nitrobenzene	<5	ug/L
Phenanthrene	<5	ug/L
Pyrene	<5	ug/L
PESTICIDES / PCBS		
4,4'-DDD	<0.02	ug/L
4,4'-DDE	<0.02	ug/L
4,4'-DDT	<0.02	ug/L
Aldrin	<0.01	ug/L
alpha-BHC	<0.01	ug/L
alpha-Chlordane	<0.01	ug/L
beta-BHC	<0.01	ug/L
delta-BHC	<0.01	ug/L
Dieldrin	<0.02	ug/L
Endosulfan I	<0.01	ug/L
Endosulfan II	<0.01	ug/L
Endosulfan sulfate	<0.02	ug/L
Endrin	<0.02	ug/L
Endrin aldehyde	<0.02	ug/L
Endrin ketone	<0.02	ug/L
gamma-Chlordane	<0.01	ug/L
Heptachlor	<0.01	ug/L
Heptachlor epoxide	<0.01	ug/L
Lindane (Gamma BHC)	<0.01	ug/L
Methoxychlor	<0.1	ug/L
Toxaphene	<1	ug/L
PCB-1016	<0.2	ug/L
PCB-1221	<0.2	ug/L
PCB-1232	<0.4	ug/L
PCB-1242	<0.2	ug/L
PCB-1248	<0.2	ug/L
PCB-1254	<0.2	ug/L
PCB-1260	<0.2	ug/L
PCB-1262	<0.5	ug/L
PCB-1268	<0.5	ug/L
Diesel Range Organics	<100	ug/L
Oil and Grease	<5	mg/L
Phenols (4AAP)	<0.005	mg/L

QC-B-001-OG
7/7/10

Scientific Products LLC
Where clean is critical

520 N. Main Street
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE	Glass	QA LEVEL	1	LOT NO.	00052424

DESCRIPTION 123-32A; 950ml. Amber Wide Mouth Packer

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<30	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5	Chromium	<10	Manganese	<10	Silver	<5
Arsenic	<2	Cobalt	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Copper	<5	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Iron	<50	Potassium	<750	Thallium	<5
Cadmium	<1	Lead	<2	Potassium (all HDPE)	<100	Vanadium	<10
Calcium	<500					Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Choronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan 1	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes, 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

10/8/12 #2158.01 MTS KMD REW

Mohawk Tannery
Nashua, NH

0630 MTS prepare field equip. for sediment sampling activities

0800 KMD/REW arrive SHA NH

0840 Depart office

0940 Arrive on Site

weather: M. sunny, T~50°F rain overnite

1600 Stilling well installed in Nashua River
- 1.5" 0.01" slot PVC (5' length) secured to metal fence stake with stainless band clamps

10/8/12 #2158.01 MTS

Mohawk Tannery
Nashua, NH

Time	PZ ID	DTW (ft TSS)	DTB (approx.) (ft TSS)
1048	PZ-01	7.92	13.05
1100	02	8.09	13.17
1116	03	7.37	11.18
1129	04	5.87	8.13
1147	05	3.96	9.14
1201	06	4.30	9.14
1209	07	6.22	9.12
1225	08	5.87	10.12
1444	09	6.34	11.14
1436	10	6.32	11.13

MTS

10/8/12 #2158.01 MTS

Mohawk Tannery
Nashua, NH

Time	PZ ID	DTW (ft TSS)	DTB (ft TSS)
1155	PZ-11	6.43	9.14
1215	12	4.09	8.13
1416	13	3.11	6.06
1410	14	2.31	6.05
1353	15	2.87	7.12

Note: Water levels and DTB measurements collected by a QED MP30 instrument

1630 SHA depart Site

△ weather: M. sunny, Temp. ~57°F

10/9/12 #2158.01 Mohawk Tannery KMD

08:35 Arrive @ Whipple St. parking lot to collect background sediment sample.

REW
KMD

10:05 Leave Whipple St. parking lot.

10:15 Arrive on-site.

12:20-12:40 V. Maynard of USEPA on-site to deliver PE samples and pick up USEPA lab samples.

12:30-12:50 Alpha courier on-site.

2:20 depart site.

3:15-3:30 Deliver samples to NHDPHS lab and pick up groundwater sample containers.

3:40 arrive at office.

Weather: Cloudy, occasional rain showers, 40s-50s °F

Kelly M Quinn

APPENDIX D

Groundwater / Mini-Piezometer / Surface Water Field Documentation

SDG Sample Tracking
GW MW SDGs

	Sample #	Date/Time Collected	Matrix	NHDES		USEPA				Alpha				EAI	
				MT2-121		MT2-221				MT2-321				MT2-521	
				Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method
Trip Blank	TRIP BLANK	10/02/12 07:15	Aq			VOCs	$VOAMW								
Trip Blank	TRIP BLANK	10/02/12 07:20	Aq											1,4-Dioxane	8260B-SIM
1	MHK_GZ-14	10/16/12 11:20	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
2	MHK_GZ-13	10/16/12 14:51	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
3	MHK_SH-19	10/16/12 17:38	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
4	MHK_GZ-10	10/17/12 10:26	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
Blind Dup. (MHK_GZ-10)	OW-121, OW-221, OW-321, OW-521	10/17/12 10:26	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
PE	SRS1472	10/17/12 12:15	Aq							Hex Cr	SM3500Cr-D				
PE	IS0680	10/17/12 12:15	Aq									Total Cr	6010C		
PE	VLM0860	10/17/12 12:15	Aq			VOCs	$VOAMW								
PE	SV0518	10/17/12 12:15	Aq					SVOCs	$BNAW						
PE	DX00059	10/17/12 12:15	Aq											1,4-Dioxane	8260B-SIM
Eqpt. Blank	EQUIP BLANK (Bladder Pump)	10/17/12 14:44	Aq	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
Trip Blank	TRIP BLANK	10/02/12 07:15	Aq			VOCs	$VOAMW								
Trip Blank	TRIP BLANK	10/02/12 07:20	Aq											1,4-Dioxane	8260B-SIM
5	MHK_GZ-11	10/17/12 16:14	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
6	MHK_SH-13	10/18/12 11:53	GW-MW	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM

NHDES Metals: Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V

SDG Sample Tracking
GW PZ SDGs

	Sample #	Date/Time Collected	Matrix	NHDES		USEPA				Alpha				EAI	
				MT2-131		MT2-231				MT2-331				MT2-531	
				Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method
Trip Blank	TRIP BLANK	10/02/12 07:15	Aq			VOCs	$VOAMW								
Trip Blank	TRIP BLANK	10/02/12 07:20	Aq											1,4-Dioxane	8260B-SIM
1	MHK_PZ-01	10/16/12 10:45	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
2	MHK_PZ-02	10/16/12 12:39	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
3	MHK_PZ-03	10/16/12 14:50	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
4	MHK_PZ-04	10/16/12 15:33	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
14	MHK_PZ-06	10/17/12 09:20	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
15 MS/MSD	MHK_PZ-14	10/17/12 10:30	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
Blind Dup. (MHK_PZ-14)	OW-131, OW-231, OW-331, OW-531	10/17/12 10:30	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
Eqpt. Blank	EQUIP BLANK (Water Level)	10/17/12 15:00	Aq	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C	1,4-Dioxane	8260B-SIM
Trip Blank	TRIP BLANK	10/02/12 07:15	Aq												
Trip Blank	TRIP BLANK	10/02/12 07:20	Aq											1,4-Dioxane	8260B-SIM
5	MHK_PZ-05	10/17/12 15:03	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
6	MHK_PZ-07	10/18/12 10:52	GW-MP	Metals	200.7/200.8/245.1							Total Cr	6010C	1,4-Dioxane	8260B-SIM
7	MHK_PZ-08	10/18/12 12:35	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
8	MHK_PZ-09	10/18/12 14:12	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
9	MHK_PZ-10	10/18/12 12:17	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
10	MHK_PZ-11	10/17/12 15:20	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
11	MHK_PZ-12	10/18/12 13:48	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
12	MHK_PZ-13	10/18/12 11:29	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
13	MHK_PZ-15	10/18/12 09:25	GW-MP	Metals	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C	1,4-Dioxane	8260B-SIM
Trip Blank	TRIP BLANK	10/08/12 07:20	Aq			VOCs	$VOAMW								
	MHK_PZ-07	10/24/12 09:18	GW-MP			VOCs	$VOAMW	SVOCs	$BNAW						

NHDES Metals: Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V

SDG Sample Tracking
SW SDGs

	Sample #	Date/Time Collected	Matrix	NHDES		USEPA				Alpha			
				MT2-141		MT2-241				MT2-341			
				Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method	Parameters	Method
Trip Blank	TRIP BLANK	10/02/12 07:15	Aq			VOCs	$VOAMW						
1	MHK_SW-01	10/17/12 12:55	SW	Metals, Hardness	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW			Total Cr	6010C
2	MHK_SW-02	10/17/12 13:31	SW	Metals, Hardness	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C
Blind Dup. (MHK_SW-02)	OW-141, OW-241, OW-341	10/17/12 13:31	SW	Metals, Hardness	200.7/200.8/245.1	VOCs	$VOAMW	SVOCs	$BNAW	Hex Cr	SM3500Cr-D	Total Cr	6010C
PE	SRS1473	10/17/12 12:15	Aq							Hex Cr	SM3500Cr-D		
PE	IS0709	10/17/12 12:15	Aq									Total Cr	6010C
PE	VLM0848	10/17/12 12:15	Aq			VOCs	$VOAMW						
PE	SV0842	10/17/12 12:15	Aq					SVOCs	$BNAW				

NHDES Metals: Sb, As, Ba, Cd, Pb, Mn, Hg, Tl, V

Low Flow Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD				
Project No.: 2158.01	Well Diameter: 2	Water Level: 7.64' TPVC	Well No.: GZ-10
Location: Mohawk Tannery	Reference Point: TPVC	Total Depth: ~17.5' TPVC (1)	Date: 10/17/12
Sanborn Head Rep.: MTS	Intake Depth: ~11.6' bg	Screen Interval: presumed 6.5-16.5' bg	Weather: clear, T~42°F

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: 10C101181	Bladder Pump Make, Model & S/N: QED Sample Pro	
YSI 600 XLM Probe S/N: ____ Meter S/N: ____	Bladder Material: Teflon	Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: QED MP30, 1002	Water Tubing Diameter (in): ID 1/8 OD 1/8	Air Tubing Diameter (in): ID 1/8 OD 1/8
Turbidity: Hach 2100P S/N: 08070C030946	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: QED 3020, S/N not legible	Flow Cell Volume (mL): 250	
Controller Make, Model & S/N: QED MP10, 1540	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
0905				7.64								
0948				7.67								insert pump, set intake depth
0950	15/35'	20	40	–								pulled pump for inspection – debris on inlet
0954	↓	20	40 *	–								resume pumping
0958	↓	10	10	7.80	180	10.49	527	7.53	6.69	112.2	9.36	
1003	↓	8.5	11.5	7.80	210	10.40	526	8.05	6.58	99.5	6.52	
1006	↓	↓	↓	7.80	210	10.63	528	9.46	6.53	104.8	6.77	
1011	↓	↓	↓	7.80	210	10.56	528	9.50	6.53	105.8	5.09	
1014	↓	↓	↓	7.80	210	10.63	528	7.53	6.50	105.8	5.81	
1017	↓	↓	↓	7.80	210	10.63	527	7.32	6.50	105.9	6.02	
1020	↓	↓	↓	7.80	210	10.71	527	6.84	6.49	106.5	6.16	
1023	↓	↓	↓	7.80	210	10.72	527	6.70	6.49	107.3	6.03	
1026	↓	↓	↓	7.80	210	10.68	527	6.58	6.49	107.9	5.71	Parameters Stabilized → Sampling performed
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	TPVC - 1' above grade (1) measured on 10/17/12

Indicator Parameters Stabilized? Yes (circled) No

2 Hour Time Limit Reached? Yes No (circled)

Laboratory Sample	Sample ID: MHK_GZ-10 (2)	Collection Time: 1026	Purge Water Volume (gal): 1.5

* Discharge duration too long → entrained air towards end of cycle

(2) Including duplicate OW

Low Flow Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD				
	Project No.: 2158.01	Well Diameter: 2	Water Level: 7.48' TPVC	Well No.: GZ-11
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth: 20.2' TPVC ①	Date: 10/17/12
	Sanborn Head Rep.: MTS	Intake Depth: ~ 14.3' bg	Screen Interval: presumed 9.3-19.3' bg	Weather: clear, T~72°F ↓

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: 10C101181	Bladder Pump Make, Model & S/N: QED Sample Pro, 10280	
YSI 600 XLM Probe S/N: – Meter S/N: –	Bladder Material: Teflon	Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: QED MP30, 1002	Water Tubing Diameter (in): ID 1/8 OD 1/4	Air Tubing Diameter (in): ID 1/8 OD 1/4
Turbidity: Hach 2100P S/N: 080700030946	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: QED 3020, S/N not legible	Flow Cell Volume (mL): 250	
Controller Make, Model & S/N: QED MP10, 1540	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1515				7.48								
1529				7.50								insert pump, set intake depth
1534	15/35'	20	40	7.63	100	14.41	532	3.40	6.49	132.4	121	
1539		6.5	13.5	7.63	210	13.43	531	1.22	6.45	116.1	77.3	
1544		6	14	7.63	240	13.16	529	0.81	6.44	107.8	125	
1549		5	15	7.65	270	13.06	529	0.24	6.43	91.9	50.3	
1554		5	15	7.65	270	13.01	530	0.17	6.43	79.0	38.2	
1559				7.65	270	13.02	530	0.19	6.43	74.4	19.6	
1602				7.65	270	12.98	530	0.21	6.43	72.6	15.6	
1605				7.65	270	12.95	531	0.22	6.43	70.4	11.9	
1608				7.65	270	12.95	531	0.18	6.43	69.3	12.8	
1611				7.65	270	12.94	531	0.17	6.43	69.1	12.0	
1614				7.65	270	12.94	531	0.17	6.43	68.0	12.3	Stabilization parameters met → sampling performed
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	TPVC - 0.9' above grade ① measured on 10/17/12

Indicator Parameters Stabilized? Yes No

2 Hour Time Limit Reached? Yes No

Laboratory Sample	Sample ID: MHK_GZ-11	Collection Time: 1614	Purge Water Volume (gal): 2.5

Low Flow Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Well Diameter: 2"	Water Level: 7.17' TPVC	Well No.: GZ-13
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth: ~22.5' TPVC (1)	Date: 10/16/12
	Sanborn Head Rep.: MTS	Intake Depth: 14' bg	Screen Interval: 6 - 22' bg	Weather: M. Sunny, T~60°F

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: (YSI 556 MPS) S/N: 10C10 1181	Bladder Pump Make, Model & S/N: QED Sample Pro, 10279
YSI 600 XLM Probe S/N: – Meter S/N: –	Bladder Material: Teflon; Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: QED MP30, 1002	Water Tubing Diameter (in): ID 1/8 OD 1/4; Air Tubing Diameter (in): ID 1/8 OD 1/4
Turbidity: Hach 2100P S/N: 080700030946	Water Tubing Material: Teflon-Lined Poly; Air Tubing Material: Poly
Compressor Make, Model & S/N: QED 3020, S/N not legible	Flow Cell Volume (mL): 250
Controller Make, Model & S/N: QED MP10, 1540	Other:

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1223				7.17								
1308				6.86								insert pump, set intake depth
1320	15/35'	20	40	–								stopped pumping to inspect pump
1327				–								debris present on inlet
1330	15/35'	20	40	7.54	100	11.93	559	3.57	6.44	-87.5	81.7	resume pumping
1333	15/35'	20	40	7.78	NR	12.00	560	2.35	6.42	-103.5	30.4	pumped stopped - WL at or near
–												top of screen interval
1401	17.5/40'	26	4	7.24								resume pumping
1406	↓	↓	↓	7.54	50	12.31	562	2.00	6.42	-94.3	35.7	
1411	↓	↓	↓	7.63	50	12.24	562	1.67	6.41	-96.0	30.6	
1416	↓	↓	↓	7.68	50	12.13	561	1.44	6.41	-97.3	29.4	
1421	↓	↓	↓	7.72	50	12.23	561	1.29	6.41	-98.9	25.9	
1426	↓	↓	↓	7.72	50	12.32	560	1.15	6.41	-102.7	18.2	
1431	↓	↓	↓	7.72	50	12.30	561	1.03	6.41	-106.0	16.2	
1436	↓	↓	↓	7.73	50	12.23	561	0.97	6.41	-108.1	16.6	
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	TPVC - 1.8' above grade (1) measured on 10/16/12 NR - not recorded

Indicator Parameters Stabilized? (Yes) No

2 Hour Time Limit Reached? Yes (No)

Laboratory Sample	Sample ID: MHK_GZ-13	Collection Time: 1451	Purge Water Volume (gal): ≤ 0.75

Low Flow Purge and Sample Data Sheet

Sampler's Signature: [signature]

SANBORN HEAD	Project No.: 2158.01	Well Diameter:	Water Level:	Well No.: GZ-13
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth:	Date: 10/16/12
	Sanborn Head Rep.: MTS	Intake Depth:	Screen Interval:	Weather:

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: ____	Bladder Pump Make, Model & S/N: ____	
YSI 600 XLM Probe S/N: ____ Meter S/N: ____	Bladder Material: Teflon	Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: ____	Water Tubing Diameter (in): ID ____ OD ____	Air Tubing Diameter (in): ID ____ OD ____
Turbidity: Hach 2100P S/N: ____	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: ____	Flow Cell Volume (mL): ____	
Controller Make, Model & S/N: ____	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Pump Settings: Recharge (sec)	Pump Settings: Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1441	17.5/40'	26	4	7.73	50	12.30	560	0.90	6.41	-111.1	14.9	
1446	↓	↓	↓	7.73	50	12.41	561	0.89	6.41	-111.4	14.4	
1451	↓	↓	↓	7.73	50	12.43	561	0.88	6.41	-112.0	13.7	Parameters stabilized
												→ Sampling performed
												* Pause-hold-sample mode
												required for VOC collection
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	

Indicator Parameters Stabilized? (Yes) No

2 Hour Time Limit Reached? Yes (No)

Laboratory Sample	Sample ID: MHK_GZ-13	Collection Time: 1451	Purge Water Volume (gal): ≤ 0.75

Low Flow Purge and Sample Data Sheet

Sampler's Signature: M

SANBORN HEAD				
Project No.: 2158.01	Well Diameter: 2"	Water Level: 3.66' TPVC	Well No.: GZ-14
Location: Mohawk Tannery	Reference Point: TPVC	Total Depth: ~40.6' TPVC ①	Date: 10/16/12
Sanborn Head Rep.: MTS	Intake Depth: ~24.0' bg	Screen Interval: 9.0 - 39.0' bg (MTS)	Weather: clear, T ~ 59°F

Instrumentation (MTS)

DO, Conductivity, Temperature, pH, ORP: (YSI 556 MPS) S/N: 10C101181

YSI 600 XLM Probe S/N: - Meter S/N: -

Water Level Make, Model & S/N: QED MP30, 1002

Turbidity: Hach 2100P S/N: 08070C030946

Compressor Make, Model & S/N: QED 3020, S/N not legible

Controller Make, Model & S/N: QED MP10, 1540

Pumping Equipment and Materials

Bladder Pump Make, Model & S/N: QED Sample Pro, 10278

Bladder Material: Teflon — Bladder Pump Diameter: (1¾") ¾"

Water Tubing Diameter (in): ID 1/8 OD 1/4 — Air Tubing Diameter (in): ID 1/8 OD 1/4

Water Tubing Material: Teflon-Lined Poly — Air Tubing Material: Poly

Flow Cell Volume (mL): 250

Other:

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
~~3.66~~	1004 hrs (MTS)			3.66								
1014				3.62								input pump set intake depth
1025	20 psi/45'	20	40	3.64	65	11.67	550	6.54	6.23	-37.3	7.84	flow cell full, CPM1
1030		30	30	3.67	65	11.51	441	4.90	6.12	-6.4	7.42	CPM1
1035		10	20	3.68	132	11.21	447	4.13	6.11	39.0	31.5	CPM2
1040		7	23	3.70	140	11.07	462	4.01	6.13	51.5	39.5	
1045		7	23	3.70	140	11.02	451	4.02	6.15	61.2	34.7	
1050		7	20	3.71	140	10.95	450	4.02	6.15	73.9	28.4	
1055		7	20	3.71	140	10.95	446	4.02	6.15	83.7	24.6	
1100		7	20	3.71	140	11.01	445	4.01	6.15	88.7	22.2	
1105		7	20	3.71	140	11.03	444	4.00	6.15	98.0	19.1	
1108		7	20	3.72	140	10.98	443	4.01	6.15	103.5	17.7	
1111		7	20	3.72	140	10.99	442	4.01	6.15	107.3	14.5	
1114		7	20	3.72	140	10.88	443	4.00	6.16	112.9	13.1	
1117		7	20	3.73	140	10.91	443	4.01	6.16	117.9	13.6	
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	TPVC - 1.3' above grade ① measured on 10/16/12

Indicator Parameters Stabilized? (Yes) No

2 Hour Time Limit Reached? Yes (No)

Laboratory Sample	Sample ID: MHK_GZ-14	Collection Time: 1120

Purge Water Volume (gal): 2

Note: At 1058 hrs, Pause-hold-sample mode yielded a maximum discharge of ~74 mL

Low Flow Purge and Sample Data Sheet

Sampler's Signature: [signature]

SANBORN HEAD	Project No.: 2158.01	Well Diameter:	Water Level:	Well No.: GZ-14
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth:	Date: 10/16/12
	Sanborn Head Rep.: MTS	Intake Depth:	Screen Interval:	Weather:

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Bladder Pump Make, Model & S/N: _____	
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Bladder Material: Teflon	Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: _____	Water Tubing Diameter (in): ID ____ OD ____	Air Tubing Diameter (in): ID ____ OD ____
Turbidity: Hach 2100P S/N: _____	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: _____	Flow Cell Volume (mL): _____	
Controller Make, Model & S/N: _____	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Pump Settings: Recharge (sec)	Pump Settings: Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1120	20 /45'	7	20	3.73	140	10.91	443	4.00	6.16	122.6	13.0	Parameters stabilized → Sampling performed
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	

Indicator Parameters Stabilized? Yes (circled) No

2 Hour Time Limit Reached? Yes No (circled)

Laboratory Sample	Sample ID: MHK_GZ-14	Collection Time: 1120	Purge Water Volume (gal): 2

Low Flow Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD				
	Project No.: 2158.01	Well Diameter: 2"	Water Level: 55.54' TPVC	Well No.: SH-13
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth: ~64.6' TPVC①	Date: 10/18/12
	Sanborn Head Rep.: MTS	Intake Depth: ~56.5' bg	Screen Interval: 46 - 61' bg	Weather: clear, T~45°F

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: (YSI 556 MPS) S/N: 10C101181	Bladder Pump Make, Model & S/N: QED Sample Pro, 10279	
YSI 600 XLM Probe S/N: – Meter S/N: –	Bladder Material: Teflon	Bladder Pump Diameter: (1¾") ¾"
Water Level Make, Model & S/N: QED MP30, 1002	Water Tubing Diameter (in): ID 1/8 OD 1/4	Air Tubing Diameter (in): ID 1/8 OD 1/4
Turbidity: Hach 2100P S/N: 08070C030946	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: QED 3020, S/N not legible	Flow Cell Volume (mL): 250	
Controller Make, Model & S/N: QED MP10, 1540	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1024				55.54								
1051				55.55								insert pump set intake depth
1113	35/80'	20	40	55.55								pump started
1119		20	40	55.55	98	12.35	350	9.21	6.22	186.7	109	flow cell full
1124		10	20	55.55	140	11.46	342	7.84	6.20	191.7	95.8	
1129		8	22	55.55	150	11.14	335	7.51	6.20	192.7	65.7	
1134				55.55	150	11.07	334	7.31	6.20	192.9	45.8	
1139				55.55	150	11.09	325	7.37	6.19	193.2	25.9	Longer discharge times didnot increase flowrate at CPM2
1144				55.55	150	11.00	317	7.41	6.20	190.9	15.1	
1147				55.55	150	11.07	315	7.39	6.19	190.2	7.49	
1150				55.55	150	11.09	312	7.40	6.19	189.1	7.37	
1153				55.55	150	11.07	311	7.36	6.19	188.9	6.92	Parameters Stabilized → Sampling performed
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	TPVC - 3.3' above grade ① Measured on 10/18/12

Indicator Parameters Stabilized? (Yes) No

2 Hour Time Limit Reached? Yes (No)

Laboratory Sample	Sample ID: MHK_SH-13	Collection Time: 1153	Purge Water Volume (gal): ~1.25

Low Flow Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD				
	Project No.: 2158.01	Well Diameter: 2	Water Level: 11.98 'TPVC	Well No.: SH-19
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth: ~23.0' TPVC ①	Date: 10/16/12
	Sanborn Head Rep.: MTS	Intake Depth: ~14.3' bg	Screen Interval: 5 - 20' bg	Weather: clear, T~59°F

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: 10C10 11B1	Bladder Pump Make, Model & S/N: QED Sample Pro, 10281	
YSI 600 XLM Probe S/N: – Meter S/N: –	Bladder Material: Teflon	Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: QED MP30, 1002	Water Tubing Diameter (in): ID 1/8 OD 1/4	Air Tubing Diameter (in): ID 1/8 OD 1/4
Turbidity: Hach 2100P S/N: 08070C030946	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: QED 3020, S/N not legible	Flow Cell Volume (mL): 250	
Controller Make, Model & S/N: QED MP10, 1540	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1604				11.98								
1614				11.98								
1619	175/40'	20	40	12.11	80	11.80	471	5.06	6.84	-29.7	922	insert pump, set intake depth
1624	↓	5	15	12.13	240	10.91	473	2.18	6.73	-4.7	741	flow cell full, abundant Fe floc.
1629	↓	↓	↓	12.13	240	10.70	471	1.57	6.74	-4.4	498	
1632	↓	↓	↓	–	–	–	–	–	–	–	–	cell emptied due to floc.
1634	↓	↓	↓	12.13	240	10.66	465	0.61	6.76	8.8	394	
1639	↓	↓	↓	12.13	240	10.66	451	1.33	6.73	1.8	324	
1644	↓	↓	↓	12.13	240	10.68	441	1.79	6.72	2.5	228	
1649	↓	↓	↓	12.13	240	10.68	425	5.62	6.69	4.4	174	
1654	↓	↓	↓	12.13	240	10.68	408	5.30	6.66	6.3	124	
1659	↓	↓	↓	12.13	240	10.65	392	6.30	6.33	7.4	91.5	
1704	↓	↓	↓	12.13	240	10.68	383	6.15	6.61	8.4	66.4	
1709	↓	↓	↓	12.13	240	10.65	376	5.88	6.80	8.5	55.9	
1714	↓	↓	↓	12.13	240	10.64	373	0.21	6.60	8.9	48.2	unexplained Δ DO
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	TPVC - 3.2' above grade ① measured on 10/16/12

Indicator Parameters Stabilized? (Yes) No

2 Hour Time Limit Reached? Yes (No)

Laboratory Sample	Sample ID: MHK_SH-19	Collection Time: 1738	Purge Water Volume (gal): 5

Low Flow Purge and Sample Data Sheet

Sampler's Signature: [signature]

SANBORN HEAD	Project No.: 2158.01	Well Diameter:	Water Level:	Well No.: SH-19
	Location: Mohawk Tannery	Reference Point: TPVC	Total Depth:	Date: 10/16/12
	Sanborn Head Rep.: MTS	Intake Depth:	Screen Interval:	Weather:

Instrumentation	Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Bladder Pump Make, Model & S/N: _____	
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Bladder Material: Teflon	Bladder Pump Diameter: 1¾" ¾"
Water Level Make, Model & S/N: _____	Water Tubing Diameter (in): ID ____ OD ____	Air Tubing Diameter (in): ID ____ OD ____
Turbidity: Hach 2100P S/N: _____	Water Tubing Material: Teflon-Lined Poly	Air Tubing Material: Poly
Compressor Make, Model & S/N: _____	Flow Cell Volume (mL): _____	
Controller Make, Model & S/N: _____	Other:	

Time	Pump Settings: Compressor Pressure (psi)	Recharge (sec)	Discharge (sec)	Water Level (ft)	Flow (ml/min)	Temperature (°C)	Specific Conductance (µS/cm)	DO (mg/l)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
1719	17.5/40'	5	15	12.13	240	10.62	370	2.24	6.59	9.4	49.7	
1724	↓	↓	↓	12.13	240	10.61	367	2.03	6.59	9.7	37.4	
1729	↓	↓	↓	12.13	240	10.61	367	1.64	6.59	10.2	37.8	
1732	↓	↓	↓	12.13	240	10.60	366	1.83	6.58	10.5	39.0	
1735	↓	↓	↓	12.13	240	10.61	366	1.80	6.58	11.2	38.4	
1738	↓	↓	↓	12.13	240	10.60	366	1.87	6.58	11.5	39.3	Parameters stabilized → Sampling performed
Equilibrium Goals (3 consecutive readings 5 min apart)				<0.3 ft total drawdown	50 - 400 ml/min	± 3% (may not equilibrate)	± 3%	± 10% (if >0.5 mg/l; if 0-0.5, three consecutive readings is stabilized)	± 0.1	± 10 mV	± 10% (for > 5 NTU; if ≤5 NTU, three consecutive readings is stabilized)	

Indicator Parameters Stabilized? (Yes) No

2 Hour Time Limit Reached? Yes (No)

Laboratory Sample	Sample ID: MHK_SH-19	Collection Time: 1738	Purge Water Volume (gal): 5

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" SS-Piezo	Water Level: 9.20 Ft.	Well No.: PZ-1
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 12.75 Ft	Date: 10.16.12
	Sanborn Head Rep.: AVK	Intake Depth: 11.75 Ft.	Screen Interval: 11.75-12.75	Weather: 60°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine #(05254)	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 W.L #(03957)	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P #(14225) - Pine	Other: (Silicone Tube) ↳ Masterflex LS15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1000	—	—	9.20	2.55	186 *	→ 2.55 x 73 ml = 186 (Ft) (Ft) ml
1040	50	—	9.20	→ lowest Speed → *		→ Started Pumping
1041	50	50			*	→ Purged 1 tubing volume of 42 ml
1043	50	—	—	→	*	Took Initial Turbidity.
✓ 1045	50	—	—	→	*	Collected 2 VOCs vials. (Sample time ~~1050~~ 1045)
1050	50	—	—	→	*	Stop due to Air Gaps
1117	50	→ -	-		*	Pump Start
1120	50	→ -	—		*	2 Vials 1,4-Dioxane
1125	50	→ -	—		*	Pump Stop - Air Gaps
Total Purge Volume (mL):	~250 ml	→ Does not include sample bottles volume				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	17.25
Total Tubing Volume (mL)	42

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	184
Laboratory Sample ID	MHK-PZ-01
Collection Date and Time	~~1300 on 9.15.12~~ AVK 1045 (10.16.12)
Temperature (°C)	13.65
Specific Conductance (µS/cm)	72
DO (mg/l)	3.84
pH (s.u.)	6.26
ORP (mV)	31.3
Turbidity (NTU) (Post-Sample Collection)	88.4
Water Level (ft) (Post-Sampling)	9.70

* Total Tube length = 13.75 Ft → Teflon + 1.1 Ft → Silicone + 2.4 Ft. → Teflon Tubing = 17.25 (Ft.) Total

"—" indicates measurement not Recorded

Mini-Piezometer Purge and Sample Data Sheet

9.20 Ft PZ-1 Page 2

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" SS - Piezo	Water Level: ~~See Page 1~~ AVK	Well No.: PZ-1
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 12.75 Ft	Date: 10.16.12
	Sanborn Head Rep.: AVK	Intake Depth: 12.75 Ft.	Screen Interval: (11.75-12.75)	Weather: 60°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine # 05254	Peristaltic Pump Make, Model & S/N: Cole Palmer masterflex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: - Meter S/N: -	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED - MP-30 # 03957	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P # 14225 - Pine	Other: Silicone Tube MasterFlex LS15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
						Sample Time
						Info.
				1 Purge ←	*	VOCs - 2 Vials - (1050)
				1 Purge ←	*	1,4 Dioxane - 2 Vials
						- (1120)
				2 Purges ←	*	Total Cr - (1220)
				1 Purge ←	*	~~Total~~ (AVK) Metals - (1221)
						TMW & KMD
						indicated not
						to collect SVOCs
						due to very slow
						Recharge.
1220	50	—				Start Pump
1220-1221		—	(collected	Filtered metals		
1223	50	-		→		Stop Pump due
1255-	1300 → Field		Measurements & Turbidity			to Air Gaps
Total Purge Volume (mL):	~250ml → Doesn't include Sample Bottles.					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	17.25
Total Tubing Volume (mL)	42

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	184
Laboratory Sample ID	MHK-PZ-01
Collection Date and Time	10.16.12 at ~~1300~~ AVK 1050
Temperature (°C)	13.65
Specific Conductance (µS/cm)	72
DO (mg/l)	3.84
pH (s.u.)	6.26
ORP (mV)	31.3
Turbidity (NTU) (Post-Sample Collection)	88.4
Water Level (ft) (Post-Sampling)	9.70

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AN PZ-2

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia	Water Level: 9.08 Ft.	Well No.: PZ-2
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 12.90 Ft	Date: 10.16.12
	Sanborn Head Rep.: AVK	Intake Depth: 11.9 Ft.	Screen Interval: (11.9 - 12.9)	Weather: 60°F, sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine # (05254)	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: - Meter S/N: -	Water Tubing Diameter (in): ID (1/8") OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 # (03957)	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # (14225) - Pine	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1145	-	-	9.08	2.82	206 ml	2.82 ft × 73 ml/ft = 206 ml
1238	~54	-	9.08	-	-	
1239	-	-	- →	lowest	Speed.	Pump start.
~~1239~~ AVK	~~1239~~ AVK	✓ AVK				Collect initial
						Turbidity &
						VOCs.
1240	~54 →	-			*	Collected 1,4-Dioxane
1242	~54 →	-			*	Air Gaps in
						tube - Stop
1350	~54 →	-			*	Pump Start.
1355	~54 →	-			* Filter	Collect Diss. Cr.
1356	~54 →				* red	Collect Metals-DES
1400	~54 →	-			*	Collect Field
1405	~54 →	Stop				Parameters
Total Purge Volume (mL):	400 ml →					

Does not include any lab bottles collected. volume for

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	16.8
Total Tubing Volume (mL)	40.5

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	89.9
Laboratory Sample ID	MHK_PZ-02
Collection Date and Time 1239	~~1400~~ AVK @ (10.16.12)
Temperature (°C)	14.25
Specific Conductance (µS/cm)	52
DO (mg/l)	4.07
pH (s.u.)	4.78
ORP (mV)	246.2
Turbidity (NTU) (Post-Sample Collection)	64.6
Water Level (ft) (Post-Sampling)	9.12 → (1425)

Tubing length = 12.9 ft - (Teflon)
+1 - (Silicone)
+1.9 - (Teflon)
= 16.8 Ft

"-" indicates measurement not recorded.

PZ-3

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK (AW)

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" SS. Did.	Water Level: 7.52 Ft	Well No.: PZ-3
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TOS)	Total Depth: 11.12 Ft	Date: 10.16.12
	Sanborn Head Rep.: AVK	Intake Depth: 10.12 Ft	Screen Interval: 10.12-11.12	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine #(05254)	Peristaltic Pump Make, Model & S/N: Cole-Palmer MasterFlex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 #(03957)	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100 P #(14225) -(Pine)	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1340	—	—	7.52	2.60	190 ml	2.60 Ft x 73 ml/ft = 190 (mls)
1440	52	-	7.52	→ lowest speed →		Pump Start
1445	-	-				Collected Turbidity
						Parameters &
						2 VOCs.
1450	52	- →	-		*	2 VOCs - Sample Time
1451	52	- →	-		*	Stop - Air Gaps
1539	52	- →	-		*	Start Pump
1500	52	- →	-		*	Collected
						1,4-Dioxane.
1607	52	- →	-		*	Stop - Air Gaps
1620	52	- →	-		*	Start Pump
1621	52	- →	-		*	Collect Total Cs.
22						& Partial Metals.
1625	52	- →	-		*	Stop Pump
						due to Air Gaps
Total Purge Volume (mL):	200 ml					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	15
Total Tubing Volume (mL)	36

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	122
Laboratory Sample ID	MHK-PZ-03
Collection Date and Time	1450 (10.16.12)
Temperature (°C)	13.27
Specific Conductance (µS/cm)	153
DO (mg/l)	2.98
pH (s.u.)	4.80
ORP (mV)	181.1
Turbidity (NTU) (Post-Sample Collection)	5.06
Water Level (ft) (Post-Sampling)	7.95 (1700 hrs.)

* Tubing length → 11.12 + 1 (Teflon) + 1 Ft (Silicone) + 1.9 Ft (Teflon) = 15 Ft

↳ Volume doesn't include sample bottles

"–" indicates measurement not collected.

~~PZ14~~
PZ-3

PZ-3

PZ-3 Page 2 Continued

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia SS (PZ-3)	Water Level: 7.52 Feet	Well No.: ~~PZ-14~~ PZ-3
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 11.12 Feet	Date: 10.16.12
	Sanborn Head Rep.: AVK	Intake Depth: 10.12 Feet	Screen Interval: 10.12 - 11.12	Weather: 70°F, Sunny

Instrumentation

DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: YSI-556 Pine # 05254
YSI 600 XLM Probe S/N: – Meter S/N: –
Water Level Make, Model & S/N: QED-MP-30 # (03957)
Turbidity Make, Model & S/N: Hach 2100 P # 14225 - Pine

Pumping Equipment and Materials

Peristaltic Pump Make, Model & S/N: Masterflex Cole Palmer (SH-3) S/N - NA
Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Tubing Material: Teflon-Lined Poly ✓
Other: Silicone Tubing For Cole-Palmer (Masterflex LS-15)

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1640	52	–				Start Pump
1641	52	–				→ Complete Sample
						for metals
						→ Collect Post
						Turbidity, Field
						Measurement
Total Purge Volume (mL):	200 mls	→ Doesn't include Sample Bottles.				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	15
Total Tubing Volume (mL)	36

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	122
Laboratory Sample ID	MHK-PZ-03
Collection Date and Time	1450 → 10.16.12
Temperature (°C)	13.27
Specific Conductance (µS/cm)	153
DO (mg/l)	2.88
pH (s.u.)	4.80
ORP (mV)	181.1
Turbidity (NTU) (Post-Sample Collection)	6.06
Water Level (ft) (Post-Sampling)	7.96 → (1700 hrs)

"–" indicates measurement not recorded

Pz-4

Pz-4

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK (AM)

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 3.42 Ft.	Well No.: Pz-4
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 8.10 Ft	Date: 10.16.12
	Sanborn Head Rep.: AVK	Intake Depth: 7.1 Feet.	Screen Interval: 7.1-8.1	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: YSI → Pine #(05254)	Peristaltic Pump Make, Model & S/N: Cole Palmer MasterFlex (SH-3)
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4" -S/N-NA
Water Level Make, Model & S/N: QED-MP-30 # (03957)	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # (14225) - Pine	Other: Silicone Tube Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1500	~75		3.42	3.68	269	~75 ml/min @
						Lowest Speed of
						Peristaltic Pump
1530	~75	—	—			Collected
						Turbidity - Pre Sam
						VOCs
				Sample Times		1,4-Dioxane
				1533 for all		Total Cr.
				except	SVOCs	Metals
1535	~75	—	—			Turbidity - Post
						Parameters.
1600	~75	—	—			→ Started
				→ Sample time		SVOCs
				1500		
Total Purge Volume (mL):	400 mls					

↳ Doesn't include Sample Bottles

Tubing ⇒ 9.2 Ft + 1 Ft + 1.5 Ft ⇒ 11.5 Ft (Teflon, Silicone, Teflon)

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	11.5
Total Tubing Volume (mL)	28 ml

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	170
Laboratory Sample ID	MHK-PZ-04
Collection Date and Time	1533 on 10.16.12
Temperature (°C)	14.67
Specific Conductance (µS/cm)	138
DO (mg/l)	2.95
pH (s.u.)	5.20
ORP (mV)	52.2
Turbidity (NTU) (Post-Sample Collection)	107
Water Level (ft) (Post-Sampling)	3.55

"–" indicates measurement not recorded

Pz-5

Pz-5 Pg. 1

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia.	Water Level: 5.31 Ft	Well No.: Pz-5
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TIS)	Total Depth: 9.10 Ft	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1 - 9.1 Ft	Weather: 70°F, sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: # 05254 (Pine)	Peristaltic Pump Make, Model & S/N: Cole Palmer MasterFlex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: – Meter S/N: –	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 # 03957	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100 P # 14225 (Pine)	Other: Silicone Tubing MasterFlex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1445	48	–	5.31	2.79	203	2.79 Ft × 73 ml/Ft = 203 mls
1500	48	–	5.31	–	* →	Start Pump @
						lowest Speed
1503	48	> 48	–		* →	Collected Pre-turbi-
						dity & 1-VOC vial
				1 Purge		(Air Gaps upon
						completion of 1 VOC
						vial)
1504	AVK ~~48~~	–	–		* →	Stop Pump
1525	48	–	–	1 Purge	* →	Start Pump &
			(Turbid Water			collected 1 VOC
			– No change in			vial - very turbid
			Position of Tubing			water
			or flowrate)			
1526	AVK ~~48~~	–	–		* →	Stop Pump - Air Gaps
(1602-	1605)	–	–	1 Purge	* →	Start Pump &
	(48)					Collect 2 vials for
Total Purge Volume (mL):	550 mls					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.25
Total Tubing Volume (mL)	32

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	27.3
Laboratory Sample ID	MHK-PZ-05
Collection Date and Time	1503 → 10.17.12
Temperature (°C)	15.20
Specific Conductance (µS/cm)	156
DO (mg/l)	5.25
pH (s.u.)	6.29
ORP (mV)	-10.4
Turbidity (NTU) (Post-Sample Collection)	131
Water Level (ft) (Post-Sampling)	6.46

Volume doesn't include Sample Bottles

1,4-Dioxane.

Tubing length ⇒ 9.1 + 1 + 0.85 + 2.3 = 13.25 Ft

9.1 + 1 → Teflon Tube; 0.85 → Silicone Tube; 2.3 → Teflon Tube

"–" indicates measurement not recorded.

PZ-5

Pg. 2

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia.	Water Level: 5.31 Ft	Well No.: PZ-5
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.10 Ft	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1-9.1 Ft	Weather: Sunny, 70°F

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: # 05254 (Pine)	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3)
YSI 600 XLM Probe S/N: – Meter S/N: –	Water Tubing Diameter (in): ID 1/8" OD 1/4" S/N-NA
Water Level Make, Model & S/N: QED-MP-AVK 30 # 03957	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # 14225 - (Pine)	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1635	48	–			*	→ Started Pump
						Collected
						Metals - Filtered
						for Alpha &
						Partial NHDES
	AVK					
1638	~~48~~	–			*	→ Stop Pump
						- Air Gaps.
1655	48	–			*	→ Completed
						NHDES - metals
1705	48	–			*	→ Field Para.
						& Final Turbidity
						Measurements

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.25
Total Tubing Volume (mL)	32

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	27.3
Laboratory Sample ID	MHK-PZ-05
Collection Date and Time	1503 on 10.17.12
Temperature (°C)	15.20
Specific Conductance (µS/cm)	156
DO (mg/l)	5.25
pH (s.u.)	6.29
ORP (mV)	(-10.4)
Turbidity (NTU) (Post-Sample Collection)	131
Water Level (ft) (Post-Sampling)	6.45

Total Purge Volume (mL):	550 mls

→ Volume doesn't include Sample Bottles

"—" indicates measurement not recorded

PZ-6 Pg. 1

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia	Water Level: 5.39 Ft	Well No.: PZ-6
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.10 Ft	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1-9.1 Ft	Weather: 65°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine # (05254)	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: – Meter S/N: –	Water Tubing Diameter (in): ID (1/8") OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 # (03957)	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # (14225) - Pine	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
0859	–	–	5.39	2.71	198	2.71 Ft x 73 ml/Ft = 198 ml
0917	55	–			*	→ Start Pump
						at lowest Pump
						Speed.
0920	55	–	–	–	*	→ Attempt for
						collecting
			Attempt to collect			Hex. Chromium
			in 1 purge for			after Initial
			Hex Chromium not			Turbidity.
			possible due to low			
			recharge			
0920	~~5~~ AVK	–			*	→ Stop Pump due
						to Air Gaps
				VOC Vial Details:–		
1015	55	–		(Container # 1201622909		→ Collected
				QEC Lot # 13223301VB		Hex. Cr from
						0920 event

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.1
Total Tubing Volume (mL)	32

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	424
Laboratory Sample ID	MHK-PZ-06
Collection Date and Time	0920 — 10.17.12
Temperature (°C)	15.93
Specific Conductance (µS/cm)	210
DO (mg/l)	4.10
pH (s.u.)	6.36
ORP (mV)	6.10
Turbidity (NTU) (Post-Sample Collection)	74.6
Water Level (ft) (Post-Sampling)	6.11

Total Purge Volume (mL): 550 ml → (Volume Doesn't include Sample Bottles.)

& 1 VOC vial - Partially (not in 1 Purge)

Tubing length = 9.1 + 1 + 1 + 2 → 13.1 Ft

9.1 → Teflon; 1 → Silicone; 2 → Teflon

"–" indicates measurement not recorded

PZ-6 Pg. 2

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK (AW) [illegible]

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 5.39 Ft	Well No.: PZ-6
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.1 Ft	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1-9.1	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine #(05254)	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3) S/N-N/A
YSI 600 XLM Probe S/N: – Meter S/N: –	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 #(03957)	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P #(14225) - Pine	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1131	55	–	–		* →	Start Pump & collect 2 VOC & 2-(1,4-Dioxane) vials.
1135-1145		–			* →	EPA Personnel on site for overview
1310	55	–			* →	Pump Started & collected Metals
1312	55	–			* →	Stop Pump due to Air Gap
1400	55	–			* →	Field Parameters & Final Turbidity Measurements
Total Purge Volume (mL):	550 ml					

→ (Volume Does'n't include Sample Bottles)

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.1
Total Tubing Volume (mL)	32

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	424
Laboratory Sample ID	MHK-PZ-06
Collection Date and Time	0920 – 10.17.12
Temperature (°C)	15.93
Specific Conductance (µS/cm)	210
DO (mg/l)	4.10
pH (s.u.)	6.36
ORP (mV)	6.10
Turbidity (NTU) (Post-Sample Collection)	74.6
Water Level (ft) (Post-Sampling)	6.11

"–" indicates measurement not recorded

PZ-7 Pg. 1

PZ-7

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia.	Water Level: 5.04 Ft	Well No.: PZ-7
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.10 Ft	Date: 10.18.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft (Top of Screen)	Screen Interval: 8.1-9.1	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: YSI # 05254 Pine	Peristaltic Pump Make, Model & S/N: Cole Palmer (SH-4) S/N-NA
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 #(03957)	Water Tubing Material: Teflon-Lined Poly. ✓
Turbidity Make, Model & S/N: Hach 2100P # 14225 - Pine	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1040	—	—	5.04	4.06	292	4.06 Ft x 73 ml/Ft = 292 ml
1050	48	—	5.04		* →	Start Pump.
1051	48	48	—		* →	Purge 1 tube
						volume.
1052	48	—	—		* →	→ Take Initial
						Turbidity &
						collect O2
						VOC vials.
1100	48	—	—		* →	Collect 2 ÷ 1,4 Dioxane
						vials.
1105-	117 (48)	—	—		* →	Collected metals
						For NHDES &
						Alpha-Filtered
						+ Partial SVOC
						Bottle.
Total Purge Volume (mL):	425					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.5
Total Tubing Volume (mL)	32.5 ml

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	937
Laboratory Sample ID	MHK_PZ-07
Collection Date and Time	1059 → (10.18.12)
Temperature (°C)	13.89
Specific Conductance (µS/cm)	406
DO (mg/l)	2.31
pH (s.u.)	5.33
ORP (mV)	71.8
Turbidity (NTU) (Post-Sample Collection)	32.5
Water Level (ft) (Post-Sampling)	6.35

Tubing = 10.1 + 0.9 + 2.5 = 13.5 Ft
↳ Teflon ↳ Silicone ↳ Teflon

↳ Not to include Sample Bottle

" – " indicates measurement not recorded

PZ-7

PZ-7 Pg. 2

PZ-7 Continued Pg. 2

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD				
	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 5.04 Ft	Well No.: PZ-7
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.1 Ft	Date: 10.18.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1-9.1	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine # 05254	Peristaltic Pump Make, Model & S/N: Cole Palmer (SH-4) S/N-NA
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 # 03957	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P # 14225	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1145	48	—	—	* →		Started Pump & collected the SVOC sample
1207	48	—	—	* →		Collected Post Turbidity & Field Parameters.

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.5
Total Tubing Volume (mL)	32.5

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	937
Laboratory Sample ID	MHK_PZ-07
Collection Date and Time	1052 → 10.18.12
Temperature (°C)	13.89
Specific Conductance (µS/cm)	405
DO (mg/l)	2.31
pH (s.u.)	5.33
ORP (mV)	71.8
Turbidity (NTU) (Post-Sample Collection)	32.5
Water Level (ft) (Post-Sampling)	6.35

Total Purge Volume (mL):	425

→ Doesn't include volume for Sample Bottles.

"—" indicates measurement not recorded.

Resampling Info for PZ-7

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: [signature]

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" SS	Water Level: 4.85 Ft	Well No.: PZ-7
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.1 Ft	Date: 10.24.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1-9.1	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: YSI-556 # 04M1126 AO	Peristaltic Pump Make, Model & S/N: Cole Palmer - Masterflex
YSI 600 XLM Probe S/N: – AVK Meter S/N: –	Water Tubing Diameter (in): ID 1/8" OD 1/4" (SH-3)
Water Level Make, Model & S/N: ~~Heron Dipper-T~~ QED-MP-30	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P (SH-3)	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
~~0825~~	AVK					
				AVK		
0900	–	–	4.85	3.25	=3.25x73 =	237(mls)
					↓ ↓	Tubing length
					Ft ml/Ft	
						= 8.1 + 2.4 + 0.95
	–					+ 1.8 = 13.25(Ft)
0915	→ ~~44~~ AVK	–	4.85	3.25	237	→ Start Pump
0916	→ 44	–	–	–	–	→ Purged 32 mls
						& calculated
						Flowrate
0918	→ 44					→ Collected initial
						Turbidity &
						2 VOC Vials
0925	→ 44					→ Collected
– 1000						Filtered SVOCs
1001	→ 44					→ Field Parameters
Total Purge Volume (mL):	300 →	in Bucket	+ 1000 ml ↓ SVOCs			Final Turbidity & water level

+ 80 ml → VOCs = 1380 mls

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	13.25 Ft
Total Tubing Volume (mL)	32 ml

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	62.7
Laboratory Sample ID	MHK-PZ-07
Collection Date and Time	10.24.12 0918
Temperature (°C)	12.12
Specific Conductance (µS/cm)	450
DO (mg/l)	1.28
pH (s.u.)	AVK ~~4.18~~ 6.23
ORP (mV)	71.3
Turbidity (NTU) (Post-Sample Collection)	7.2
Water Level (ft) (Post-Sampling)	7.22

"–" indicates measurement not recorded.

PZ-8.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia	Water Level: 6.04 Ft	Well No.: PZ-8
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 10.1 Ft	Date: 10.18.12
	Sanborn Head Rep.: AVK	Intake Depth: 9.1 Ft Top of Screen	Screen Interval: 9.1-10.1 Ft	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: YSI # 05254 (Pine)	Peristaltic Pump Make, Model & S/N: Cole-Palmer (SH-4), S/N-NA
YSI 600 XLM Probe S/N: – Meter S/N: –	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 # 03957	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # 14225 (Pine)	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1130 →	[redacted] – AVK	–	6.04	3 [redacted].06 AVK	~220	3.06 Ft x 73ml/Ft = 220 ml/s
1225 →	48	–	–	–	– →	Start Pump
– 1330	↓					Collected initial Turbidity,
			Note:-			
	Slowest Pump Speed		(All Samples One Purge)			2 VOCs
						2 Dioxane
						Metals-NHDES
					Filter	Metals-Alpha
						SVOCs
						Field Para & Final Turbidity

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	14.4
Total Tubing Volume (mL)	35 ml

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	131
Laboratory Sample ID	MHK_PZ-08
Collection Date and Time	10.18.12 → (1235)
Temperature (°C)	17.93
Specific Conductance (µS/cm)	284
DO (mg/l)	2.90
pH (s.u.)	5.60
ORP (mV)	28.6
Turbidity (NTU) (Post-Sample Collection)	25.8
Water Level (ft) (Post-Sampling)	6.58

Total Purge Volume (mL): 350 → Not including Sample Bottles for laboratory

Tubing length = 9.1 Ft Teflon + 3.8 Ft AVK Silicone + 1.5 Ft Teflon = 14.4 Ft.

"—" indicates measurement not recorded

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia.	Water Level: 7.12 Ft.	Well No.: PZ-09
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 11.1 Ft.	Date: 10.18.12
	Sanborn Head Rep.: AVK	Intake Depth: 10.1 Feet (Top of Screen)	Screen Interval: 10.1-11.1	Weather: 70°F, Sunny

Instrumentation

DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: YSI # 05254 (Pine)

YSI 600 XLM Probe S/N: — Meter S/N: —

Water Level Make, Model & S/N: QED-MP-30 #03957

Turbidity Make, Model & S/N: Hach 2100 P #14225 (Pine)

Pumping Equipment and Materials

Peristaltic Pump Make, Model & S/N: Cole Palmer (SH-4) S/N - NA

Water Tubing Diameter (in): ID 1/8" OD 1/4"

Water Tubing Material: Teflon-Lined Poly ✓

Other: silicone Tubing MasterFlex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1350	—	—	7.12	2.98	217	2.98 Ft × 73 ml/Ft = 217 mls
1410	64	—	7.12	—	— →	Minimum Pump
1411	64	64	—	—	— →	Speed @
						Start
1412	64	—	—	—	— →	Took initial
						Turbidity
						Collected 2 VOCs
						2 1,4 Dioxane
						Metals - NHDES,
						Metals - Alpha,
						SVOCs &
						Field Parameters
						+ Turbidity
1445	64	—	—			Stop Sampling
						→ silicone

Note: One Single Purge for Sample Collection

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	15.1
Total Tubing Volume (mL)	36.5

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	445
Laboratory Sample ID	MHK_PZ-09
Collection Date and Time	1412 → 10.18.12
Temperature (°C)	16.12
Specific Conductance (µS/cm)	441
DO (mg/l)	3.37
pH (s.u.)	5.79
ORP (mV)	91.9
Turbidity (NTU) (Post-Sample Collection)	50.1
Water Level (ft) (Post-Sampling)	7.36

Total Purge Volume (mL):	400 ml

(Including Sample Bottles)

Tubing = 10.1 Ft + 2.5 + 0.9 Ft + 1.6 Ft = 15.1 Ft.
↳ Teflon

"—" indicates measurement not recorded

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: [illegible]

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 7.24	Well No.: PZ-10
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 11.13	Date: 10/18/12
	Sanborn Head Rep.: REW	Intake Depth: —	Screen Interval: 10.13-11.13	Weather: Sunny, 60s

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: 04M 1126	Peristaltic Pump Make, Model & S/N: Masterflex (SH-3)
YSI 600 XLM Probe S/N: No Meter S/N: 115562-4M 12630	Water Tubing Diameter (in): ID 1/8 OD 1/4
Water Level Make, Model & S/N: Solinst model 101 (34685)	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P 08070C030946	Other:

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1157			7.24	28.89 PW	~~[illegible]~~	210.97 mL
1212	60					Pump on
1217						VOC
1222						pump off (no bubbles)
1224	40					pump on - Dioxane
1230						pump off
1255	44					pump on - Q, metals
1308						pump off
1330	56					pump on, Q, SVOC
1331	48					
1344	48					*
1354						Pump off - sm. bubbles
1415	44					Pump on, Q, SVOC
Total Purge Volume (mL):	530					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.4
Total Tubing Length (ft)	15.9
Total Tubing Volume (mL)	38

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	4.08
Laboratory Sample ID	MHK_PZ-10
Collection Date and Time	10/18/12 1217
Temperature (°C)	18.56
Specific Conductance (µS/cm)	610
DO (mg/l)	2.77
pH (s.u.)	6.45
ORP (mV)	104.0
Turbidity (NTU) (Post-Sample Collection)	1.14
Water Level (ft) (Post-Sampling)	7.30

PZ-11

Pg. 1

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia	Water Level: 3.62 Ft	Well No.: PZ-11
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.10 Ft	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Ft	Screen Interval: 8.1-9.1	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine #(05254)	Peristaltic Pump Make, Model & S/N: Cole Palmer MasterFlex (SH-3) S/N-NA
YSI 600 XLM Probe S/N: - AVK Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-20 # 03957	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # 14225-Pine	Other: Silicone Tubing MasterFlex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1515	-	-	3.62	4.48	327	4.48 Ft x 73 ml/Ft = 327 mls
1517	48	-	3.62	-	*	→ Start Pump
1518	48	48	-	-	*	→ Take Pre Turbidity measurement
						Collected (2) VOCs, (2) 1,4-Dioxane Partial Fil. metals for NHDES
1540	48	-	-	-	*	→ Stop due to Air Gaps
1610	48	-	—	—	*	→ Attempted to complete metal sample for DES — not complete due to slow recharge
Total Purge Volume (mL):	150 ml					→ Doesn't include volume for labcoarse

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	12.6
Total Tubing Volume (mL)	31

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	256
Laboratory Sample ID	MHK-PZ-11
Collection Date and Time	1520 — 10.17.12
Temperature (°C)	13.41
Specific Conductance (µS/cm)	239
DO (mg/l)	4.69
pH (s.u.)	5.40
ORP (mV)	305
Turbidity (NTU) (Post-Sample Collection)	778
Water Level (ft) (Post-Sampling)	7.70

Tubing length = 9.1 + 1 + 0.9 + 1.6 = 12.6 Ft

9.1 → Teflon Tubing; 0.9 → Silicone tubeing; 1.6 → Teflon Tubing

"—" indicates measurement not recorded.

PZ-11

Pg. 2

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK (AM)

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia.	Water Level: 3.62 FT	Well No.: PZ-11
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 9.10 FT	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 8.1 Feet	Screen Interval: 8.1-9.1	Weather: 70°F, Sunny

Instrumentation		Pumping Equipment and Materials	
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine # 05254		Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3) S/N-NA	
YSI 600 XLM Probe S/N: —	Meter S/N: —	Water Tubing Diameter (in): ID 1/8" OD 1/4"	
Water Level Make, Model & S/N: QED - MP-AVK 3D # 03957		Water Tubing Material: Teflon-Lined Poly ✓	
Turbidity Make, Model & S/N: Hach 2100P # 14225 - Pine		Other: Silicone Tubing Masterflex LS-15	

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
						AVK
1710	48	–		→		Completed
						Metals NHDES
1720	48	–		→		Completed
						Total Cr - Alpha
1730	48	–		→		Field Parameters
						& Final
						Turbidity
						(Very low
						Recharge to
						obtain the
						Final Field
						Parameters
						Sample)

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	12.6
Total Tubing Volume (mL)	31

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	256
Laboratory Sample ID	NHK_PZ-11
Collection Date and Time	10.17.12 — 1520
Temperature (°C)	13.41
Specific Conductance (µS/cm)	239
DO (mg/l)	4.69
pH (s.u.)	5.40
ORP (mV)	30.5
Turbidity (NTU) (Post-Sample Collection)	778
Water Level (ft) (Post-Sampling)	7.70

Total Purge Volume (mL):	150 mL

→ Doesn't include volume for labware

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.60' TSS	Well No.: PZ-12
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: ~8.2' TSS	Date: 10/18/12
	Sanborn Head Rep.: MTS	Intake Depth: ~6.2' bg	Screen Interval: ~6.2-7.2' bg	Weather: clear, T~72°F

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: 10C101161	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex E/S, S/N absent (Pine #07289)
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8 OD 1/4
Water Level Make, Model & S/N: QED MP30, 1002	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P, 08070C030946	Other: Masterflex silicone LS 15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1340			2.60	~~5.6~~ MTS	~~409~~ MTS	
1347	50	36	NR	4.6	336	purged 1 internal tubing vol.
1348						initiated sampling
1401					→	collected:
					-	pre Sample turbidity
					-	VOCs
					-	1,4 Dioxane
					-	Filtered metals
					approx -	100±mL for SVOCs
1426			4.06	3.1	226	continued to fill SVOCs bottle
1500			NR	—	—	SVOC labware filled
					-	collected water quality
						information (post-sample collection)
Total Purge Volume (mL):		~50 *				

NR - Not recorded

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.4
Total Tubing Length (ft)	15
Total Tubing Volume (mL)	36

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	58.1
Laboratory Sample ID	MHK_PZ-12
Collection Date and Time	10/18/12, 1348
Temperature (°C)	17.20
Specific Conductance (µS/cm)	217
DO (mg/l)	4.69
pH (s.u.)	6.21
ORP (mV)	-30.1
Turbidity (NTU) (Post-Sample Collection)	7.04
Water Level (ft) (Post-Sampling)	7.03' TSS

* Plus volume required to fill labware

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: [illegible]

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.12	Well No.: PZ-13
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 6.06	Date: 10/18/12
	Sanborn Head Rep.: REW	Intake Depth: –	Screen Interval: 5.06-6.06	Weather: Sunny, 50s

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: 04M1126	Peristaltic Pump Make, Model & S/N: Masterflex
YSI 600 XLM Probe S/N: _____ Meter S/N: 115562-4M 12630	Water Tubing Diameter (in): ID 1/8 OD 1/4
Water Level Make, Model & S/N: Solinst Model 101 (34685)	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P 08070C030946	Other:

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1119			2.12	2.94 EW	~~2870~~	214.62 mL EW
1125	60					pump on reduced Q
1129						VOCs
1131						bubbles, pump off
EW ~~1239~~						
1240	45					Pump on - metals
1245						Pump off - bubbles
1400						pump on -
1407						pump off - air bubbles
1450						pump on
1459						pump off - air
1530						pump on - SVOCs
1535						pump off - air
						insufficient recharge
						for SVOCs
Total Purge Volume (mL):		EW ~~2680~~ 610				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.4
Total Tubing Length (ft)	11.8
Total Tubing Volume (mL)	28.2

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	30.5
Laboratory Sample ID	MHK-PZ-13
Collection Date and Time	12/18/10 1129
Temperature (°C)	16.88
Specific Conductance (µS/cm)	657
DO (mg/l)	3.07
pH (s.u.)	7.01
ORP (mV)	-76.0
Turbidity (NTU) (Post-Sample Collection)	3.42
Water Level (ft) (Post-Sampling)	3.86

PZ-14

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" Dia	Water Level: 2.26 Ft	Well No.: PZ-14
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser (TSS)	Total Depth: 6.05 Ft	Date: 10.17.12
	Sanborn Head Rep.: AVK	Intake Depth: 5.05 Ft	Screen Interval: 5.05-6.05	Weather: 70°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: Pine # 05254	Peristaltic Pump Make, Model & S/N: Cole Palmer Masterflex (SH-3) S/N- NA
YSI 600 XLM Probe S/N: - Meter S/N: -	Water Tubing Diameter (in): ID 1/8" OD 1/4"
Water Level Make, Model & S/N: QED-MP-30 # 03957	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N: Hach 2100P # 14225 - Pine	Other: Silicone Tubing Masterflex LS-15

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
0955	—	—	2.26	3.79	279	3.79 Ft X 73 ml/Ft =
1029	44	—			*	→ Start Pump
1030	44	44			*	→ Collected
						initial Turbidity
						(3) Hex. Cr.
						(4) VOCs
						(4) 1,4-Dioxane
						(3) Total Cr.
1110	—	—			*	Stop Pump
						- No Drawdown
						at well
1200	44	—				(3) SVOCs
-1305						(3) Metals - NHDES
1415	44	—			*	Field Parameter
						& Turbidity
Total Purge Volume (mL):	1500					

Unit Volume of Standing Water Above Screen (mL/ft)	73
279 mls.	

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.41
Total Tubing Length (ft)	9.8 Ft
Total Tubing Volume (mL)	~24 ml

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	61.8
Laboratory Sample ID	MAK-PZ-14
Collection Date and Time	1030 — 10.17.12
Temperature (°C)	16.56
Specific Conductance (µS/cm)	353
DO (mg/l)	3.42
pH (s.u.)	5.64
ORP (mV)	132.1
Turbidity (NTU) (Post-Sample Collection)	8.2
Water Level (ft) (Post-Sampling)	2.27

↳ Not including labourc

Collected MS-MSD Samples
See Sample name table for details

Tubing = 6.05 Ft + 1 Ft + 0.8 Ft + 2 Ft = 9.8 Ft → Teflon Tubing
Teflon; ↳ Silicone

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: [signature]

SANBORN HEAD				
	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 3.0	Well No.: PZ-15
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 7.12	Date: 10/18/12
	Sanborn Head Rep.: REW	Intake Depth: –	Screen Interval: 6.12-7.12	Weather: Sunny, 40S

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: (YSI 556 MPS) S/N: 04M1126	Peristaltic Pump Make, Model & S/N: Masterflex (SH-3)
YSI 600 XLM Probe S/N: NA Meter S/N: 115562-4M	Water Tubing Diameter (in): ID 1/8 OD 1/4
Water Level Make, Model & S/N: Solinst Model 101 (34685) 12630	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: Hach 2100P 08070C030946	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
0923	52		3.0	3.12	227.8	
						VOC @ 0925
0955	52					SVOC
1029	56					
1034						Parameters
1039			3.0			

Total Purge Volume (mL):	257

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	2.4
Total Tubing Length (ft)	10.6 REW
Total Tubing Volume (mL)	25.4

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	12.4
Laboratory Sample ID	MHK-PZ-15
Collection Date and Time	10/18/12 0925
Temperature (°C)	13.24
Specific Conductance (µS/cm)	369
DO (mg/l)	1.84
pH (s.u.)	5.88
ORP (mV)	135.3
Turbidity (NTU) (Post-Sample Collection)	8.17
Water Level (ft) (Post-Sampling)	3.0 @1039

Surface Water Quality Field Sampling Summary

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date: 10/17/12
	Project Name: Former Mohawk Tannery	
	Project Location: Nas	
Weather: clear, T~70°F	Project Manager: TMW	
Measurement Device: measuring tape	Water parameters - YSI 556 MPS, Hach 2100P	

Field Measurements

Sampling Location	SW-01	SW-02		
Collector(s)	MTS	MTS		
Reference Point	water surface →			
Depth to Floating Product (feet)	–	–		
Depth to Water (feet)	0	0		
Depth to Stream Bed (feet)	0.17	0.25		
Depth of Flow (DTSB-DTW)	0.17	0.25		
pH (standard units)	4.82	6.67		
Specific Conductance (µS/cm)	201	106		
Temperature (°C)	14.79	16.93		
Dissolved Oxygen (mg/L)	1.87	4.62		
Oxidation Reduction Potential (mv)	107.7	170.0		
Date of Sample	10/17/12	10/17/12		
Sample Time	1255	1331		
Comment Reference Number	1 4	2, 3 4		

Comments

1. Turbidity - 4.97 NTU Brown coloration (leaf tannin)
2. Turbidity - 1.61 NTU L. brown coloration (leaf tannin)
3. Duplicate sample collected (OW-)
4. Water samples collected by peristaltic pump (Cole Palmer Masterflex E/S S/N K05003972) with dedicated, new tyflon lined 1/8 x 1/4" LDPE tubing and LS 15 silicone tubing.

Field Audit

Mohawk Tannery Southern Parcel
NHDES Site No. 198404002

Date: 10/17/2012 **Audit Performed By:** Kelly M. Dubois

Signature: Kelly M. Dubois

Field Task: Groundwater Sampling (MWs & Piezos) **Personnel Audited:** M. Stein, A. Khandekar

Copy of SAP on-site? yes Copy of HWRB Master QAPP on-site? yes

Field instruments calibrated correctly? yes

Sampling SOP followed? yes

Modifications made to SOP? (discuss below) none

Decontamination completed correctly? yes

Field notebook completed correctly? yes

Field documentation completed correctly? yes

Chains-of-custody completed correctly? yes

Comments

Kelly M. Dubois

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/15/12

Location: Sanborn Head Time: 1141

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 115562-4M (SH-3)

YSI 650 MDS / 556 MPS Display, Serial number: 04M1126 AO (SH-3)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: ~~8.29~~ MTS 748.7 mm Hg

Ambient Air Temperature (measured with YSI temperature probe): 24.02 °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☒ No ☐

Value read back from instrument: 8.29 mg/l

Theoretical DO concentration in water-saturated air: 8.13 mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.06 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.06 s.u. @ 23.72 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.02 s.u. @ 23.38 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 9.98 s.u. @ 23.69 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1410 µS/cm @ 23.39 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 713 µS/cm @ 23.62 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/201

Oxidation Reduction Potential Standard: 231 mV Calibration check: 232.5 mV @ 23.15 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 080100027294 (SH-3)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1141

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.15 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.0 Lot No. & Expiration Date: A2102, 4/2013

Std No 3: 100 NTU Calibration Check: 99.5 Lot No. & Expiration Date: A2094, 4/2013

Std No 4: 800 NTU Calibration Check: 808 Lot No. & Expiration Date: A2100, 4/2013

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/15/12

Location: Sanborn Head Time: 1512

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 115562-4M (SH-3)

YSI 650 MDS / 556 MPS Display, Serial number: 04M1126 A0 (SH-3)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 747.6

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.04 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.07 s.u. @ 23.23 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.99 s.u. @ 23.32 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.06 s.u. @ 23.59 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1410 µS/cm @ 22.80 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 701 µS/cm @ 23.34 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/2013

Oxidation Reduction Potential Standard: 231 mV Calibration check: 227.3 mV @ 23.55 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08010C027294 (SH-3)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1141

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.11 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.1 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 101 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 796 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/16/12

Location: Sanborn Head Time: 0757

Sanborn Head Rep: MTS Weather: Clearing, T~40°F

YSI 600/556 Sonde with Flow Through Cell, Serial number: 115562-4M (SH-3)

YSI 650 MDS /556 MPS Display, Serial number: 04M1126 A0 (SH-3)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 758.4

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.27 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.05 s.u. @ 11.20 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.99 s.u. @ 12.54 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.01 s.u. @ 11.64 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1.413 µS/cm Value read back from instrument: 1425 µS/cm @ 13.77 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 697 µS/cm @ 12.84 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/2013

Oxidation Reduction Potential Standard: 231 mV Calibration check: 248.2 mV @ 13.43 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 080100027294 (SH-3)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1141

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.14 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.1 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.8 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 807 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/18/12

Location: Sanborn Head Time: 1605

Sanborn Head Rep: MTS Weather: clear, T~63°F

YSI 600/556 Sonde with Flow Through Cell, Serial number: 115562-4M (SH-3)

YSI 650 MDS /556 MPS Display, Serial number: 04M1126 A0 (SH-3)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 758.5

Ambient Air Temperature (measured with YSI temperature probe): – °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: – mg/l

Theoretrical DO concentration in water-saturated air: – mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☐ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.03 mg/l

DO Charge: –

First pH Standard: 7.01 s.u. Calibration check: 7.06 s.u. @16.13 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.05 s.u. @16.80 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.08 s.u. @16.66 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1463 µS/cm @15.89 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 718 µS/cm @15.82 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/2013

Oxidation Reduction Potential Standard: 231 mV Calibration check: 243.0 mV @15.68 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08010C027294 (SH-3)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1141

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.17 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 19.8 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.0 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 799 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/24/12

Location: Mohawk Tannery Time: 0815

Sanborn Head Rep: MTS Weather: clear, T~ 42°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 115562-4M

YSI 650 MDS /556 MPS Display, Serial number: 04M1126 A0 (SH-3)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 762.2

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.16 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.01 s.u. @ 7.61 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.93 s.u. @ 7.01 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.05 s.u. @ 7.46 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1473 µS/cm @ 8.30 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 05/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 711 µS/cm @ 7.40 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2013

Oxidation Reduction Potential Standard: 231 mV Calibration check: 256.8 mV @ 8.26 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100232, 4/2014

Hach 2100P Portable Turbidimeter, serial number: 08010C027294 (SH-3)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1141

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.16 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 19.8 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 101 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 808 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/24/12

Location: Mohawk Tannery Time: 1209

Sanborn Head Rep: MTS Weather: P. Sunny, T~60°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 115562-4M

YSI 650 MDS / 556 MPS Display, Serial number: 04M1126 A0 (SH-3)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 762.3

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.22 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 6.91 s.u. @ 13.93 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.88 s.u. @ 13.13 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.01 s.u. @ 12.85 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1388 µS/cm @ 12.50 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 05/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 709 µS/cm @ 13.25 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620, 8/9/2013

Oxidation Reduction Potential Standard: 231 mV Calibration check: 250.7 mV @ 13.10 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100232, 4/2014

Hach 2100P Portable Turbidimeter, serial number: 08010C027294 (SH-3)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1141

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.11 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.1 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.5 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 796 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/15/12

Location: Sanborn Head Time: 1213

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine # 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 747.4

Ambient Air Temperature (measured with YSI temperature probe): 23.67 °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☒ No ☐

Value read back from instrument: 8.22 mg/l

Theoretical DO concentration in water-saturated air: 8.26 mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.15 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.14 s.u. @23.68 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.90 s.u. @23.48 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 9.97 s.u. @23.55 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1412 µS/cm @23.50 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 699 µS/cm @23.36 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2013

Oxidation Reduction Potential Standard: 231 mV Calibration check: 231.5 mV @23.77 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 080700030836 (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.10 Lot No. & Expiration Date: A 2097, 4/2013

Std No 2: 20 NTU Calibration Check: 19.8 Lot No. & Expiration Date: A 2102

Std No 3: 100 NTU Calibration Check: 98.9 Lot No. & Expiration Date: A 2094

Std No 4: 800 NTU Calibration Check: 792 Lot No. & Expiration Date: A 2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/15/12

Location: Sanborn Head Time: 1535

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 745.4

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☐ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.31 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.00 s.u. @ 23.44 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.93 s.u. @ 23.44 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 9.99 s.u. @ 23.50 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1426 µS/cm @ 23.22 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 722 µS/cm @ 23.50 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

Oxidation Reduction Potential Standard: 231 mV Calibration check: 232.7 mV @ 23.48 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C 030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.11 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.0 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.4 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 791 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/16/12

Location: Sanborn Head Time: 0824

Sanborn Head Rep: MTS Weather: p. cloudy, T~ 54°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 746.6

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.38 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 6.96 s.u. @ 15.00 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.03 s.u. @ 13.55 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 9.85 s.u. @ 14.20 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 430 µS/cm @ 14.49 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 714 µS/cm @ 15.55 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

* Oxidation Reduction Potential Standard: 231 mV Calibration check: 257.2 mV @ 15.11 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C 030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU	Calibration Check: 0.08	Lot No. & Expiration Date:	A2097, 4/2013
Std No 2: 20 NTU	Calibration Check: 19.9	Lot No. & Expiration Date:	A2102
Std No 3: 100 NTU	Calibration Check: 98.6	Lot No. & Expiration Date:	A2094
Std No 4: 800 NTU	Calibration Check: 795	Lot No. & Expiration Date:	A2100

S:\CONDATA\2100s\2158.01\Source Files\SAP\2012-09 Draft Final\Field SOPs\B6 cal-cal check w-turbidity.docx

* Did not meet cal. check criteria. ORP recalibrated

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/16/12

Location: Mohawk Tannery Time: 0832

Sanborn Head Rep: MTS Weather: P. cloudy, T ~ 54°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pin # 05254

Date and Time Dissolved Oxygen Filter membrane last changed: _____

Local Barometric Pressure: _____

Ambient Air Temperature (measured with YSI temperature probe): _____ °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☐

Value read back from instrument: _____ mg/l

Theoretrical DO concentration in water-saturated air: _____ mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☐ No ☐

Standard manufacturer, lot number and expiration date: _____

Value read back from instrument: _____ mg/l

DO Charge: _____

First pH Standard: _____ s.u. Calibration check: _____ s.u. @ _____ °C

Standard manufacturer, lot number and expiration date: _____

Second pH Standard: _____ s.u Calibration check: _____ s.u. @ _____ °C

Standard manufacturer, lot number and expiration date: _____

Third pH Standard: _____ s.u. Calibration check: _____ s.u. @ _____ °C

Standard manufacturer, lot number and expiration date: _____

Primary Specific Conductance Standard: 1.413 µS/cm Value read back from instrument: _____ µS/cm @ ___ °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: _____

Secondary Specific Conductance Standard: 700 µS/cm Calibration check _____ µS/cm @ ____ °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: _____ MTS

Oxidation Reduction Potential Standard: 231 mV Calibration check: 244.8 mV @ 14.55 C

Standard manufacturer, lot number and expiration date: Zobell, 12D100 575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: _____

Date & Time Turbidity Meter last calibrated with Primary Standards: _____

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

Std No 2: 20 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

Std No 3: 100 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

Std No 4: 800 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

MTS

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/16/12

Location: Sanborn Head Time: 1834

Sanborn Head Rep: MTS Weather: clear, T~51°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 749.1

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.47 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.10 s.u. @10.36 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.00 s.u. @10.87 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: ~~10~~ 9.92 s.u. @10.16 °C
MTS

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1455 µS/cm @11.38 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 729 µS/cm @10.52 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

Oxidation Reduction Potential Standard: 231 mV Calibration check: 251.4 mV @10.54 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.15 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 19.7 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 98.2 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 795 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/17/12

Location: Sanborn Head Time: 0546

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine # 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/17/12 - 0546

Local Barometric Pressure: 753.0

Ambient Air Temperature (measured with YSI temperature probe): 22.70 °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☒ No ☐

Value read back from instrument: 8.58 mg/l

Theoretrical DO concentration in water-saturated air: ____ mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.37 mg/l

DO Charge: —

* Reconditioned DO probe in an attempt to speed up response time. DO values recorded on 10/16/12 within cal. check criteria.

First pH Standard: _____ s.u. Calibration check: _____ s.u. @ _____ °C

Standard manufacturer, lot number and expiration date: _____

Second pH Standard: _____ s.u Calibration check: _____ s.u. @ _____ °C

Standard manufacturer, lot number and expiration date: _____

Third pH Standard: _____ s.u. Calibration check: _____ s.u. @ _____ °C

Standard manufacturer, lot number and expiration date: _____

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: _____ µS/cm @ ___ °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: _____

Secondary Specific Conductance Standard: 700 µS/cm Calibration check _____ µS/cm @ ____ °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: _____

Oxidation Reduction Potential Standard: _____ mV Calibration check: _____ mV @ ____ °C

Standard manufacturer, lot number and expiration date: _____

Hach 2100P Portable Turbidimeter, serial number: _____

Date & Time Turbidity Meter last calibrated with Primary Standards: _____

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

Std No 2: 20 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

Std No 3: 100 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

Std No 4: 800 NTU Calibration Check: _____ Lot No. & Expiration Date: _____

MTS

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/17/12

Location: Sanborn Head Time: 0750

Sanborn Head Rep: MTS Weather: clear, T~37°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/17/12 - 0546

Local Barometric Pressure: 754.2

Ambient Air Temperature (measured with YSI temperature probe): – °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: – mg/l

Theoretrical DO concentration in water-saturated air: – mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.49 mg/l

DO Charge: –

First pH Standard: 7.01 s.u. Calibration check: 7.20 s.u. @ 5.90 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.95 s.u. @ 7.50 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.01 s.u. @ 7.15 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1451 µS/cm @ 7.02 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 714 µS/cm @ 6.71 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

Oxidation Reduction Potential Standard: 231 mV Calibration check: 248.5 mV @ 6.72 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.10 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 19.8 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 98.8 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 793 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/17/12

Location: Sanborn Head Time: 1753

Sanborn Head Rep: MTS Weather: clear, T~49°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/17/12 - 0546

Local Barometric Pressure: 754.4

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☐ No ☒

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.50 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.11 s.u. @12.38 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.99 s.u. @12.43 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.06 s.u. @11.94 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1.413 µS/cm Value read back from instrument: 1447 µS/cm @12.77 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 693 µS/cm @12.69 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

Oxidation Reduction Potential Standard: 231 mV Calibration check: 237.2 mV @12.73 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.13 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.4 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 100 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 790 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/18/12

Location: Sanborn Head Time: 0811

Sanborn Head Rep: MTS Weather: clearing, T~40°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/17/12 - 0546

Local Barometric Pressure: 757.9

Ambient Air Temperature (measured with YSI temperature probe): – °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: – mg/l

Theoretrical DO concentration in water-saturated air: – mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☐ No ☒

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.50 mg/l

DO Charge: –

First pH Standard: 7.01 s.u. Calibration check: 6.95 s.u. @ 10.03 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.04 s.u. @ 10.96 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 9.94 s.u. @ 10.31 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1406 µS/cm @ 12.38 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 693 µS/cm @ 11.56 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

Oxidation Reduction Potential Standard: 231 mV Calibration check: 238.4 mV @ 12.23 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.13 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.6 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.3 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 795 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/18/12

Location: Sanborn Head Time: 1533

Sanborn Head Rep: MTS Weather: clear, T~64°F

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336 11D39

YSI 650 MDS / 556 MPS Display, Serial number: 03J0271AF (Pine# 05254)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/17/12 - 0546

Local Barometric Pressure: 758.6

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☐ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.49 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.19 s.u. @ 15.17 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.12 s.u. @ 16.90 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 08/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.10 s.u. @ 16.40 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1448 µS/cm @ 15.30 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 722 µS/cm @ 15.10 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/2

Oxidation Reduction Potential Standard: 231 mV Calibration check: 236.7 mV @ 14.85 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030836, (Pine # 14225)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1213

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.15 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.2 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 98.8 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 791 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/15/12

Location: Sanborn Head Time: 1245

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS / 556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 749.0

Ambient Air Temperature (measured with YSI temperature probe): 24.26 °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☒ No ☐

Value read back from instrument: 8.27 mg/l

Theoretical DO concentration in water-saturated air: 8.29 mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.07 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.05 s.u. @23.52 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.01 s.u. @23.23 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.01 s.u. @23.58 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1411 µS/cm @23.29 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 690 µS/cm @23.38 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620JL, 8/9/201

Oxidation Reduction Potential Standard: 231 mV Calibration check: 230.9 mV @23.31 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/2/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine # 13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.10 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.1 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.5 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 806 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/15/12

Location: Sanborn Head Time: 1524

Sanborn Head Rep: MTS Weather: office

YSI 600 / 556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS / 556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 746.1

Ambient Air Temperature (measured with YSI temperature probe): – °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: – mg/l

Theoretical DO concentration in water-saturated air: – mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.12 mg/l

DO Charge: –

First pH Standard: 7.01 s.u. Calibration check: 7.07 s.u. @ 23.36 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.05 s.u. @ 23.36 °C

Standard manufacturer, lot number and expiration date: HI 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 9.95 s.u. @ 23.53 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1432 µS/cm @ 23.26 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 708 µS/cm @ 23.45 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 229.1 mV @ 23.60 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.15 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.0 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.0 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 791 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/16/12

Location: Sanborn Head Time: 0844

Sanborn Head Rep: MTS Weather: Sunny, T~51°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS /556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 750.7

Ambient Air Temperature (measured with YSI temperature probe): – °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: – mg/l

Theoretrical DO concentration in water-saturated air: – mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.08 mg/l

DO Charge: –

First pH Standard: 7.01 s.u. Calibration check: 7.05 s.u. @13.84 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.96 s.u. @12.71 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.02 s.u. @13.74 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1402 µS/cm @13.0 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 721 µS/cm @13.97 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 246.8 mV @13.98 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.05 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.3 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 100 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 803 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/16/12

Location: Sanborn Head Time: 1824

Sanborn Head Rep: MTS Weather: clear, T ~ 54°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS /556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 754.2

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.02 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.11 s.u. @ 11.03 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.99 s.u. @ 11.52 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.09 s.u. @ 10.96 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1425 µS/cm @ 11.58 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 712 µS/cm @ 11.38 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 249.0 mV @ 11.24 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.17 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.2 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.8 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 808 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/17/12

Location: Sanborn Head Time: 0807

Sanborn Head Rep: MTS Weather: clear, T~35°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS /556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 759.3

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.04 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.05 s.u. @ 5.27 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.01 s.u. @ 6.57 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.14 s.u. @ 6.10 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1.413 µS/cm Value read back from instrument: 1447 µS/cm @ 6.16 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 697 µS/cm @ 6.05 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 253.6 mV @ 6.04 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.16 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.0 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 101 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 809 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/17/12

Location: Sanborn Head Time: 1726

Sanborn Head Rep: MTS Weather: clear, T~58°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS /556 MPS Display, Serial number: 10C1011B1 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 758.2

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.09 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.15 s.u. @13.41 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 3.99 s.u. @13.34 °C

Standard manufacturer, lot number and expiration date: HI, 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.16 s.u. @12.79 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1478 µS/cm @13.44 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 690 µS/cm @13.46 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 244.7 mV @13.46 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.13 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.1 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 100 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 803 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet
(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/18/12

Location: Sanborn Head Time: 0829

Sanborn Head Rep: MTS Weather: clear, T~39°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS /556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 762.5

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.18 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.09 s.u. @ 8.71 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 4.01 s.u Calibration check: 4.01 s.u. @ 9.19 °C

Standard manufacturer, lot number and expiration date: HI 3552, 8/2016

Third pH Standard: 10.01 s.u. Calibration check: 10.11 s.u. @ 8.55 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1,413 µS/cm Value read back from instrument: 1410 µS/cm @ 10.15 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 721 µS/cm @ 9.77 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 247.1 mV @ 10.21 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.18 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 19.9 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 98.8 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 796 Lot No. & Expiration Date: A2100

Equipment Calibration/Calibration Check Data Sheet

(circle one)

Sanborn Head Rep Signature

SANBORN HEAD

Project No.: 2158.01 Date: 10/18/12

Location: Sanborn Head Time: 1553

Sanborn Head Rep: MTS Weather: clear, T~64°F

YSI 600 /556 Sonde with Flow Through Cell, Serial number: 600336-4M

YSI 650 MDS /556 MPS Display, Serial number: 10C101181 (Pine #16301)

Date and Time Dissolved Oxygen Filter membrane last changed: 10/12/12 - 1711

Local Barometric Pressure: 761.2

Ambient Air Temperature (measured with YSI temperature probe): — °C

Calibration of Dissolved Oxygen (DO) Probe by water-saturated air: Yes ☐ No ☒

Value read back from instrument: — mg/l

Theoretrical DO concentration in water-saturated air: — mg/l

Calibration check of DO Probe with zero mg/l DO standard: Yes ☒ No ☐

Standard manufacturer, lot number and expiration date: Oakton, QX1, 03/2013

Value read back from instrument: 0.12 mg/l

DO Charge: —

First pH Standard: 7.01 s.u. Calibration check: 7.10 s.u. @ 15.93 °C

Standard manufacturer, lot number and expiration date: HI, 3709, 10/2016

Second pH Standard: 10.01 s.u Calibration check: 10.12 s.u. @ 16.48 °C

Standard manufacturer, lot number and expiration date: HI 3552, 8/2016

Third pH Standard: 4.01 s.u. Calibration check: 4.04 s.u. @ 16.96 °C

Standard manufacturer, lot number and expiration date: HI, 2733, 09/2015

Primary Specific Conductance Standard: 1.413 µS/cm Value read back from instrument: 1406 µS/cm @ 15.63 °C

Primary Standard (1,413 µS/cm) manufacturer, lot number and expiration date: HI, 3279, 5/2016

Secondary Specific Conductance Standard: 700 µS/cm Calibration check 707 µS/cm @ 15.54 °C

Secondary Standard (700 µS/cm) manufacturer, lot number and expiration date: Myron L Co., 072620 JL, 8/9/20

Oxidation Reduction Potential Standard: 231 mV Calibration check: 239.5 mV @ 15.43 °C

Standard manufacturer, lot number and expiration date: Zobell, 12D100575, 5/1/2014

Hach 2100P Portable Turbidimeter, serial number: 08070C030946 (Pine #13561)

Date & Time Turbidity Meter last calibrated with Primary Standards: 10/15/12, 1245

Hach StablCal® Standards:

Std No 1: <0.1 NTU Calibration Check: 0.13 Lot No. & Expiration Date: A2097, 4/2013

Std No 2: 20 NTU Calibration Check: 20.1 Lot No. & Expiration Date: A2102

Std No 3: 100 NTU Calibration Check: 99.8 Lot No. & Expiration Date: A2094

Std No 4: 800 NTU Calibration Check: 800 Lot No. & Expiration Date: A2100

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 12462

Order Number: SG011910

Date Shipped: 10/16/2012

AirBill No(s): 417558963200

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. C
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712
FAX: 1-702-795-8210

To: VICKI MAYNARD
US EPA REGION I
11 TECHNOLOGY DRIVE.
NORTH CHELMSFORD MA 01863
617-918-8614

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
IS0709	814	1	LOW/MED AQUEOUS METALS	99-004
IS0680	814	1	LOW/MED AQUEOUS METALS	99-004
SV0518	361	1	AQUEOUS SEMIVOLATILES	05-005
SV0842	361	1	AQUEOUS SEMIVOLATILES	05-005
VLM0860	355	1	LOW/MED CONC. AQUEOUS VOLATILES	05-004
VLM0848	355	1	LOW/MED CONC. AQUEOUS VOLATILES	05-004
DX00059	383	1	PURGEABLE AQUEOUS 1,4-DIOXANE	03-007
SRS1472	SR0566	1	AQUEOUS HEXAVALENT CHROMIUM	SRPES
SRS1473	SR0566	1	AQUEOUS HEXAVALENT CHROMIUM	SRPES

10-16-12

SUPERFUND SITE NAME: MOHAWK TANNERY

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time 15:30 10-16-12	Received by: (Signature)	Date/Time 10/17/12 12:15
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

QATS Form 20-008F053R01 07-31-2012

QC-B-001-OG
7/7/10

Scientific Products LLC
Where clean is critical

36 East B.J. Tunnell Blvd.
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE	Glass	**QA LEVEL**	1	**LOT NO.**	00049601
DESCRIPTION	123-32A; 950ml. Amber Wide Mouth Packer				

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5	Chromium	<10	Manganese	<10	Silver	<5
Arsenic	<2	Cobalt	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Copper	<5	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Iron	<50	Potassium	<750	Thallium	<5
Cadmium	<1	Lead	<2	Potassium (all HDPE)	<100	Vanadium	<10
Calcium	<500					Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes , 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

QC-B-001-OG
7/7/10

Scientific Products LLC
Where clean is critical

36 East B.J. Tunnell Blvd.
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE Glass **QA LEVEL** 1 **LOT NO.** 00049601

DESCRIPTION 123-32A; 950ml Amber Wide Mouth Packer

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5			Manganese	<10	Silver	<5
Arsenic	<2	Chromium	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Cobalt	<10	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Copper	<5	Potassium	<750		
Cadmium	<1	Iron	<50	Potassium (all HDPE)	<100	Thallium	<5
Calcium	<500	Lead	<2			Vanadium	<10
						Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes , 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

Deborah Robinson

QC-B-001-OG
7/7/10

Scientific Products LLC
Where clean is critical

520 N. Main Street
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE	Glass	QA LEVEL	1	LOT NO.	00052424
DESCRIPTION	123-32A; 950ml. Amber Wide Mouth Packer				

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5	Chromium	<10	Manganese	<10	Silver	<5
Arsenic	<2	Cobalt	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Copper	<5	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Iron	<50	Potassium	<750	Thallium	<5
Cadmium	<1	Lead	<2	Potassium (all HDPE)	<100	Vanadium	<10
Calcium	<500					Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes , 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

Deborah Robinson

QC-B-001-OG
7/7/10

Scientific Products LLC
Where clean is critical

36 East B.J. Tunnell Blvd.
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE Glass **QA LEVEL** 1 **LOT NO.** 00049601

DESCRIPTION 123-32A; 950ml Amber Wide Mouth Packer

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5			Manganese	<10	Silver	<5
Arsenic	<2	Chromium	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Cobalt	<10	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Copper	<5	Potassium	<750		
Cadmium	<1	Iron	<50	Potassium (all HDPE)	<100	Thallium	<5
Calcium	<500	Lead	<2			Vanadium	<10
						Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes , 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

Deborah Robinson

QC-B-001-OG
7/7/10

Scientific Products LLC
Where clean is critical

36 East B.J. Tunnell Blvd.
Miami OK. 74354

Certificate of Analysis

BOTTLE TYPE Glass **QA LEVEL** 1 **LOT NO.** 00049601

DESCRIPTION 123-32A; 950ml Amber Wide Mouth Packer

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg /L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5	Chromium	<10	Manganese	<10	Silver	<5
Arsenic	<2	Cobalt	<10	Mercury	<0.2	Sodium	<5000
Barium	<20	Copper	<5	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Iron	<50	Potassium	<750	Thallium	<5
Cadmium	<1	Lead	<2	Potassium (all HDPE)	<100	Vanadium	<10
Calcium	<500					Zinc	<10

In addition to the above analytes, NALGENE® containers are certified for these analytes:

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Chloride	<100	Fluoride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Paraquat (amber only)	<0.4	Sulfide	<30
Diquat (amber only)	<1.0					Sulfite	<1000

Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<5
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<20
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<5
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<20
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20	TPH by EPA 1664	<50 mg/Kg
Aroclor-1262	<0.20	Aroclor-1268	<0.20		
Diesel Range Organics	<0.2 mg/L	Oil & Grease	<5.0 mg/L		

Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

In addition to the above analytes , 40 mL and 60 mL vials are certified for:

Compound	Quantitation Limit (µg/L)
Total Organic Carbon	<600

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department.
Approved By: Deborah Robinson - Quality Assurance

Water Level Measurement Form

Sampler's Signature: AW

SANBORN HEAD	Project Number: 2158.01	Date: 10.24.12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter: QED-MP-30 | Project Manager: T. White

Weather: 70°F, Sunny | Collector: A. Khandekar

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	Water Elev. (ft)	Note Number(s)
Northern Parcel								
GZ-01 ?	190.69	PVC	← Did n't locate →					
GZ-04	128.72	PVC	10.24.12	1200	-	-	-	1
GZ-06 ?	131.09	PVC	—	Couldn't	locate	—		
* GZ-09	131.26	PVC	10.24.12	1525	-	16.31	-	Cut lock
SH-01 ?	189.68	PVC	← Did n't locate →					
* 5403 SH-02	158.86	PVC	10.24.12	1220	-	37.4	→	Lock opens but does not close
* SH-03	152.67	PVC	10.24.12	1245	-	31.24	→	2
5403 SH-04	135.33	PVC	10.24.12	1210	-	19.06	→	-
5403 SH-05	140.80	PVC	10.24.12	1320	-	15.49	→	-
5403 SH-06	151.31	PVC	10.24.12	1310	-	31.20	→	-
5403 SH-07	162.85	PVC	10.24.12	1330	-	42.11	→	-
SH-08	192.47	PVC	10.24.12	1410	-	72.54	→	-
5403 SH-09	161.63	PVC	10.24.12	1340	-	41.95	→	-
5403 SH-10	160.45	PVC	10.24.12	1400	-	40.71	→	-
SH-11 ?	174.31	PVC	← Did n't locate →					
5403 SH-12	175.53	PVC	10.24.12	1430	-	56.26	→	-
* SH-14	128.80	PVC	10.24.12	1150	-	12.56	→	Cut lock
* SH-15	133.56	PVC	10.24.12	1137	-	16.17	→	Cut lock
* SH-16S	133.06	PVC	10.24.12	1521	-	16.00	→	Cut lock
* SH-16D	133.27	PVC	10.24.12	1117	-	16.37	→	Lock open
5403 SH-17	130.10	PVC	10.24.12	1536	-	13.17	→	-
5403 SH-18	142.33	PVC	10.24.12	1505	-	21.21	→	3
Southern Parcel								
GZ-10	125.80	PVC	10.24.12	1607	-	7.80	→	-
✓ GZ-11	125.00	PVC	10.24.12	1605	-	7.62	→	-
GZ-13	123.70	PVC	10.24.12	1609	-	7.19	→	-
5402 SH-13	174.42	PVC	10.24.12	1415	-	55.55	→	-
✓ SH-19	130.19	PVC	10.24.12	1456	→	12.19	→	-
✓ GZ-14	119.60	PVC	10.24.12	1622	-	3.74	→	-
Mini-piezometers								
PZ-01	-	SSR	10.24.12	1647	-	9.38	→	-
PZ-02	-	SSR	10.24.12	1643	-	8.97	→	-
PZ-03	-	SSR	10.24.12	1641	-	7.64	-	-
PZ-04	-	SSR	10.24.12	1633	-	3.36	-	-
PZ-05	-	SSR	10.24.12	1627	-	5.71	-	-
PZ-06	-	SSR	10.24.12	1624	-	5.09	-	-

As per MTS - no depth of Bottom measurement

Water Level Measurement Form

Sampler's Signature: (AK)

SANBORN HEAD	Project Number: 2158.01	Date: 10.24.12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter: QED-MP-30	Project Manager: T. White
Weather: 70°F, Sunny	Collector: A. Khandekar

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	Water Elev. (ft)	Note Number(s)
PZ-07		SSR	10.24.12	1617	–	5.21	–	–
PZ-08		SSR	10.24.12	1614	–	6.08	–	–
PZ-09		SSR	10.24.12	1611	–	7.12	–	–
PZ-10		SSR	10.24.12	1600	–	7.14	–	–
PZ-11		SSR	10.24.12	1627	–	5.32	–	–
PZ-12		SSR	10.24.12	1619	–	5.51	–	–
PZ-13		SSR	10.24.12	1706	–	3.11	–	–
PZ-14		SSR	10.24.12	1659	–	2.45	–	–
PZ-15		SSR	10.24.12	1701	–	3.00	–	–
Other Locations								
Stilling Basin			10.24.12	0825	–	2.60	–	–

Notes

1. Well Casing & PVC material Bent at surface, no water level measurement possible, no lock present. 1
2. Replace well lock, wellcap & cut Riser to secure cap. → 2
3. Beehive in Casing
4.
5.

DTP = Depth to Product
DTW = Depth to Water
PVC = Top of PVC Well Riser
SSR = Top of Stainless Steel Riser

* wells not located

G2-1	SH-1
G2-6	SH-11

* Locks needed

G2-9	SH-14
SH-02	SH-15
SH-03	SH-16S
	SH-16D

Water Level Measurement Form

Sampler's Signature: M

SANBORN HEAD	Project Number: 2158.01	Date: 10/25/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter: QED MP30 - S/N 1002	Project Manager: T. White
Weather: clear, T~ 44°	Collector: MTS, AVK

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	Water Elev. (ft)	Note Number(s)
Northern Parcel								
GZ-01	190.69	PVC	10/25/12	0916				2
GZ-04	128.72	PVC						
GZ-06	131.09	PVC						3
GZ-09	131.26	PVC						New lock - 5402
SH-01	189.68	PVC	10/25/12	0923		68.94		
SH-02	158.86	PVC						New lock - 5402
SH-03	152.67	PVC				→ Exp	Plug +	New lock - 5402
SH-04	135.33	PVC						
SH-05	140.80	PVC						
SH-06	151.31	PVC						
SH-07	162.85	PVC						
SH-08	192.47	PVC						
SH-09	161.63	PVC						
SH-10	160.45	PVC						
SH-11	174.31	PVC	10/25/12	0840				1
SH-12	175.53	PVC						
SH-14	128.80	PVC						New lock - 5402
SH-15	133.56	PVC						New lock - 5402
SH-16S	133.06	PVC				→ Exp	Plug +	New lock - 5402
SH-16D	133.27	PVC						New lock - 5402
SH-17	130.10	PVC						
SH-18	142.33	PVC						
Southern Parcel								
GZ-10	125.80	PVC						
GZ-11	125.00	PVC						
GZ-13	123.70	PVC						
SH-13	174.42	PVC						
SH-19	130.19	PVC						
GZ-14	119.60	PVC						
Mini-piezometers								
PZ-01		SSR						
PZ-02		SSR						
PZ-03		SSR						
PZ-04		SSR						
PZ-05		SSR						
PZ-06		SSR						

Water Level Measurement Form

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date:
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter:	Project Manager: T. White
Weather:	Collector:

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	Water Elev. (ft)	Note Number(s)
PZ-07		SSR						
PZ-08		SSR						
PZ-09		SSR						
PZ-10		SSR						
PZ-11		SSR						
PZ-12		SSR						
PZ-13		SSR						
PZ-14		SSR						
PZ-15		SSR						
Other Locations								

Notes

1. Mon. well likely destroyed during site bldg. demo.
2. Mon. well could not be located (likely under soil pile/debris)
3. Mon well could not be located (possibly destroyed during sewer earthwork)
4.
5.

DTP = Depth to Product
DTW = Depth to Water
PVC = Top of PVC Well Riser
SSR = Top of Stainless Steel Riser

SANBORN HEAD

File No. 2158.01 Page No. 1 of 1
Project Former Mohawk Tannery
Location Nashua, NH
Subject DTB measurements
Calculated by MTS/AVK Date 10/25/12
Checked by Date

Loc	Time	DTB (ft Top of Ref. Pt)
GZ-10	1420	17.50
11	1417	20.15
13	1430	22.53 AVK (22.53)
14	1436	40.52
SH-13	1512	64.49
SH-19	1357	23.00
PZ-01	1452	~~13.00~~ AVK 13.05
02	1450	13.27
03	1447	~~10.~~ AVK 11.27
04	1444	8.22
05	1442	~~9.30~~ AVK 9.24
06	1438	9.23
07	1428	9.21
08	1426	10.22
09	1424	11.23
10	1422	11.22
11	1440	9.24
12	1434	8.22
13	1402	6.16
14	1410	6.22
15	1413	7.22

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10.16.12 #2158.01 Mohawk Tannery MTS AVK

0720 left SHA-NH for Mohawk Tannery site.

0815 Arrive on Site
weather: clearing, Temp. ~52°F
(heavy rain previous evening)
- Prepare for mon. well and piezometer sampling

1900 MTS/AVK depart Site
- Gate secured and locked

1945-2018 unload field equipment with assistance from TMW at SHA NH office
△ weather: clear, T~59°F
- see field doc. for more information regarding sampling activities

MTS

10/17/12 # 215801 MTS AVK

Mohawk Tannery
Nashua, NH

0530 MTS arrive office for field equip prep
0625 AVK arrive office
0655 Depart office for Site
0739 Arrive on Site
weather: clear, colder T~36°F
- Resume mon. well and piezometer sampling
- Collect SW samples
0830 KMD arrive on Site
1015 EPA proj. manager arrive on Site
1818 MTS / AVK depart Site

10/17/12 #2158.01 MTS

1444 Equipment Blank collected from QED Sample Pro pump S/N 10280. Lab supplied water put into food grade sealable bag, with disassembled pump, and then put into labware

1500 Equipment Blank collected from QED MP30 (S/N 1002). Lab supplied water put into a new food grade sealable bag and probe submersed. Water then transfered into labware

1900 Arrive SHA NH. Unload field equipment

10/17/12 #2158.01

See field documentation for more information regarding sampling activities

Δ weather clear, T~69°F

10/18/12 #2158.01 MTS AVK REW

Mohawk Tannery
Nashua, NH

0531 MTS arrive SHA NH for field equipment prep.
0630 AVK arrive SHA NH
0655 REW arrive SHA NH
- Depart office
0750 Arrive on Site
weather: clearing, T ~ 40°F
- MTS to complete groundwater sampling
- AVK/REW to resume piezometer sampling
1250 Groundwater sampling complete. MTS to assist with piezometer sampling

10/18/12 #2158.01 MTS

1630 Piezometer sampling complete. Performed instrum. calibration checks.
- Depart Site. Gate secured and locked
Δ weather: clear, T ~ 70°F
1712 Return to SHA NH. Unload field equipment
- KMD/TMW to manage samples collected today

APPENDIX E

Stilling Well / Mini-Piezometer Installation / Survey Data

Water level measurement by AVK for Mini-Piezo

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: X	Well No.: X
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: X	Date: 9.28.12
	Sanborn Head Rep.: AVK	Intake Depth: X	Screen Interval:	Weather: 65°F, Rain

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging → Total Depth (Ft)			Comments → (Ft) Drive ↑	
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	~~Depth Standing Water Above Screen (ft)~~	Vol. Standing Water Above Screen (mL)		
0820			7.82	13.2	5.38	PZ-1	↑(0.4)
0825			8.95	11.2	2.25	PZ-2	
0829			7.25	10.2	2.95	PZ-3	
0833			2.87	8.2	5.33	PZ-4	
0837			4.19	9.2	5.01	PZ-5	
0842			6.11	9.2	3.09	PZ-6	
0847			5.30	9.2	3.90	PZ-7	
0852			6.67	10.2	3.53	PZ-8	
0855			7.25	10.2	2.95	PZ-9	↓(1)
0858			8.11	11.2	3.09	PZ-10	↓(1)
0900			5.10	6.2	1.10	PZ-11	
0905			4.25	6.2	1.95	PZ-12	
0910			2.14	6.2	4.06	PZ-13	
0913			2.40	6.2	3.80	PZ-14	
0915			2.86	6.2	3.34	PZ-15	
Total Purge Volume (mL):							

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

water level measurements before Driving down

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: See Below	Well No.: See Below
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: See Below	Date: 10.2.12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: 65°F. Rain.

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: → Total Depth	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	~~Cum. Purge Vol. (mL)~~	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	Driven Down
0950		11.2	8.44	↓ 2 Ft	2.76 ✓	Pz-2 - (2Ft) Yes
0935		10.2	7.47	↓ 1 Ft.	2.73 ✓	Pz-3 - (1 Ft) Yes
1005		9.2	4.76	—	4.44 X	Pz-6 - (1 Ft) No [redacted]
1050		6.2	1.98	↓ 3Ft	4.22 ✓	Pz-11 - (3ft) Yes
1020		6.2	1.93	↓ 2Ft.	4.27 ✓	Pz-12 - (2Ft) Yes
0900		6.2	2.78	↓ 1Ft	3.42 ✓	Pz-15 - (1Ft) Yes
				Revised	length of	Piezo (Ft)
				Pz-2	13.2	
				Pz-3	11.2	
				Pz-6	[redacted]9.2	(Unchanged)
				Pz-11	9.2	
				Pz-12	8.2	
				Pz-15	7.2	

Total Purge Volume (mL):	

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Note:- Water level measurement prior to raising piezometers.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level:	Well No.: See below
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth:	Date: 10/11/12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather:

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____ → Depth to Bottom	Other:

Stick up	Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
~2.5	1300	PZ-1		8.00	13.05	5.05	Raised 1 Ft.
2	1310	PZ-2		8.01	13.17	5.16	Raised 0.9 Ft.
		PZ-3					See REW log
	1325	PZ-4		2.75	8.13	5.38	Raised 0.8 Ft
	1340	PZ-5		3.99	9.14	5.15	Raised 1 Ft.
2	1400	PZ-6		4.10	9.14	5.04	Raised 0.8 Ft
	1405	PZ-7		4.45	9.12	4.67	Raised 0.2 Ft
		PZ-8					See REW log
1.7	1420	PZ-9		6.00	11.14	5.14	Raised 0.8 Ft
1.85	1430	PZ-10		6.01	11.13	5.12	Raised 0.8 Ft
	1440	PZ-11		REW			Raised 0.3 Ft
		PZ-12		REW			See REW log
	1445	PZ-13		2.01	6.06	4.05	No Change
		PZ-14					See REW log
		PZ-15					See REW log

Total Purge Volume (mL):	

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

See REW logs for Details on water level after Piezo-adjustments.

Water Level Measurement Form

Sampler's Signature: Ryan Welch

SANBORN HEAD	Project Number: 2158.01	Date: October 11, 2012
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter: QED MP-30	Project Manager: T. White
Weather: Sunny, 40s	Collector: REW

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	Water Elev. (ft)	Note Number(s)
Northern Parcel – Not measured								
GZ-01	190.69	PVC						
GZ-04	128.72	PVC						
GZ-06	131.09	PVC						
GZ-09	131.26	PVC						
SH-01	189.68	PVC						
SH-02	158.86	PVC						
SH-03	152.67	PVC						
SH-04	135.33	PVC						
SH-05	140.80	PVC						
SH-06	151.31	PVC						
SH-07	162.85	PVC						
SH-08	192.47	PVC						
SH-09	161.63	PVC						
SH-10	160.45	PVC						
SH-11	174.31	PVC						
SH-12	175.53	PVC						
SH-14	128.80	PVC						
SH-15	133.56	PVC						
SH-16S	133.06	PVC						
SH-16D	133.27	PVC						
SH-17	130.10	PVC						
SH-18	142.33	PVC						
Southern Parcel – Not measured								
GZ-10	125.80	PVC						
GZ-11	125.00	PVC						
GZ-13	123.70	PVC						
SH-13	174.42	PVC						
SH-19	130.19	PVC						
GZ-14	119.60	PVC						
Mini-piezometers								
PZ-01		SSR	10/11/12	1402	—	9.09		3
PZ-02		SSR	10/11/12	1409	—	9.03		3
PZ-03		SSR	10/11/12	1356	—	7.10		
PZ-04	Stickup = 1.80'	SSR	10/11/12	1418	—	3.15		3
PZ-05	Stickup = 1.95'	SSR	10/11/12	1422	—	4.96		3
PZ-06		SSR	10/11/12	1432	—	4.88		3

Water Level Measurement Form

Sampler's Signature: Rey Gel

SANBORN HEAD	Project Number: 2158.01	Date: 10/11/12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter: ~~MA~~ QED MP-30	Project Manager: T. White
Weather: Sunny, 60s	Collector: REW

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	Water Elev. (ft)	Note Number(s)
PZ-07	—	SSR	10/11/12	1436	—	4.39	—	4
PZ-08	—	SSR	10/11/12	1313	—	5.68	—	
PZ-09	—	SSR	10/11/12	1442	—	6.97	—	3
PZ-10	—	SSR	10/11/12	1447	—	6.83	—	3
PZ-11	—	SSR	10/11/12	1426	—	4.21	—	4
PZ-12	—	SSR	10/11/12	1337	—	2.85	—	2
PZ-13		SSR						
PZ-14	—	SSR	10/11/12	~~2.27~~ 1305	—	2.22	—	
PZ-15	—	SSR	10/11/12	1255	—	3.21	—	1
Other Locations								
PZ-15	-	SSR	10/11/12	1303	—	2.78	—	

Notes

1. The DTW was observed decreasing when original reading was collected. A second DTW measurement was collected as noted in "Other Locations."
2. PZ-12 water level was observed to be increasing - several minutes were allowed for WL to equilibrate before DTW was recorded.
3. These DTW measurements were collected after change in piezometer depth made.
4. DTW measured before piezometer depth adjusted
5.

DTP = Depth to Product
DTW = Depth to Water
PVC = Top of PVC Well Riser
SSR = Top of Stainless Steel Riser

Water level Measurement.

Water Level Measurement Form

Sampler's Signature: AVK

SANBORN HEAD	Project Number: 2158.01	Date: 10.15.12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter:	Solonist.	Project Manager: T. White	
Weather:	75°F, Cloudy.	Collector:	

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	~~Water Elev. (ft)~~ → ft Standing Water.	Note Number(s)
Northern Parcel								
GZ-01	190.69	PVC						
GZ-04	128.72	PVC						
GZ-06	131.09	PVC						
GZ-09	131.26	PVC						
SH-01	189.68	PVC						
SH-02	158.86	PVC						
SH-03	152.67	PVC						
SH-04	135.33	PVC						
SH-05	140.80	PVC						
SH-06	151.31	PVC						
SH-07	162.85	PVC						
SH-08	192.47	PVC						
SH-09	161.63	PVC						
SH-10	160.45	PVC						
SH-11	174.31	PVC						
SH-12	175.53	PVC						
SH-14	128.80	PVC						
SH-15	133.56	PVC						
SH-16S	133.06	PVC						
SH-16D	133.27	PVC						
SH-17	130.10	PVC						
SH-18	142.33	PVC						
Southern Parcel								
GZ-10	125.80	PVC						
GZ-11	125.00	PVC						
GZ-13	123.70	PVC						
SH-13	174.42	PVC						
SH-19	130.19	PVC					[redacted] Standing water	
GZ-14	119.60	PVC					→ in Feet.	
Mini-piezometers								
PZ-01		SSR	10.15.12	1600	13.05	9.28	3.77	
PZ-02		SSR	10.15.12	1605	13.17	9.15	4.02	
PZ-03		SSR	10.15.12	1610	11.1	[redacted] 7.30	3.80	
PZ-04		SSR	10.15.12	1615	8.13	[redacted] 3.26	4.87	
PZ-05		SSR	10.15.12	1620	9.14	5.18	3.96	
PZ-06		SSR	10.15.12	1625	9.14	5.20	3.94	

Water Level Measurement Form

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date:
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002
Water Level Meter:		Project Manager: T. White
Weather:		Collector:

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	~~Water Elev. (ft)~~ Standing Water in Feet.	Note Number(s)
PZ-07		SSR	10.15.12	1627	4.12	4.65	4.47	
PZ-08		SSR		1631	10.12	5.84	4.28	
PZ-09		SSR		1635	11.14	7.08	4.06	
PZ-10		SSR		1639	11.13	7.11	4.02	
PZ-11		SSR		1643	9.14	4.04	5.10	
PZ-12		SSR		1647	8.13	2.83	5.30	
PZ-13		SSR		1651	6.06	2.13	3.93	
PZ-14		SSR		1659	6.05	2.21	3.84	
PZ-15		SSR		1700	7.12	2.84	4.28	
Other Locations								

Notes

1.

2.

3.

4.

5.

DTP = Depth to Product
DTW = Depth to Water
PVC = Top of PVC Well Riser
SSR = Top of Stainless Steel Riser

Water level Measurement.

Water Level Measurement Form

Sampler's Signature: AVK

SANBORN HEAD	Project Number: 2158.01	Date: 10.15.12
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002

Water Level Meter:	Solonist.	Project Manager: T. White	
Weather:	75°F, Cloudy.	Collector:	

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	~~Water Elev. (ft)~~ → ft Standing Water.	Note Number(s)
Northern Parcel								
GZ-01	190.69	PVC						
GZ-04	128.72	PVC						
GZ-06	131.09	PVC						
GZ-09	131.26	PVC						
SH-01	189.68	PVC						
SH-02	158.86	PVC						
SH-03	152.67	PVC						
SH-04	135.33	PVC						
SH-05	140.80	PVC						
SH-06	151.31	PVC						
SH-07	162.85	PVC						
SH-08	192.47	PVC						
SH-09	161.63	PVC						
SH-10	160.45	PVC						
SH-11	174.31	PVC						
SH-12	175.53	PVC						
SH-14	128.80	PVC						
SH-15	133.56	PVC						
SH-16S	133.06	PVC						
SH-16D	133.27	PVC						
SH-17	130.10	PVC						
SH-18	142.33	PVC						
Southern Parcel								
GZ-10	125.80	PVC						
GZ-11	125.00	PVC						
GZ-13	123.70	PVC						
SH-13	174.42	PVC						
SH-19	130.19	PVC					[redacted] Standing water	
GZ-14	119.60	PVC					→ in Feet.	
Mini-piezometers								
PZ-01		SSR	10.15.12	1600	13.05	9.28	3.77	
PZ-02		SSR	10.15.12	1605	13.17	9.15	4.02	
PZ-03		SSR	10.15.12	1610	11.1	[redacted] 7.30	3.80	
PZ-04		SSR	10.15.12	1615	8.13	[redacted] 3.26	4.87	
PZ-05		SSR	10.15.12	1620	9.14	5.18	3.96	
PZ-06		SSR	10.15.12	1625	9.14	5.20	3.94	

Water Level Measurement Form

Sampler's Signature:

SANBORN HEAD	Project Number: 2158.01	Date:
	Project Name: Mohawk Tannery Southern Parcel	
	Project Location: Nashua, NH	NHDES Site No.: 198404002
Water Level Meter:		Project Manager: T. White
Weather:		Collector:

Location	Reference Elev. (ft)	Reference Point	Date	Time	DTP (ft)	DTW (ft)	~~Water Elev. (ft)~~ Standing Water in Feet.	Note Number(s)
PZ-07		SSR	10.15.12	1627	4.12	4.65	4.47	
PZ-08		SSR		1631	10.12	5.84	4.28	
PZ-09		SSR		1635	11.14	7.08	4.06	
PZ-10		SSR		1639	11.13	7.11	4.02	
PZ-11		SSR		1643	9.14	4.04	5.10	
PZ-12		SSR		1647	8.13	2.83	5.30	
PZ-13		SSR		1651	6.06	2.13	3.93	
PZ-14		SSR		1659	6.05	2.21	3.84	
PZ-15		SSR		1700	7.12	2.84	4.28	
Other Locations								

Notes

1.

2.

3.

4.

5.

DTP = Depth to Product
DTW = Depth to Water
PVC = Top of PVC Well Riser
SSR = Top of Stainless Steel Riser

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 7.96	Well No.: PZ-01
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 13.2	Date: 10-2-12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval: 12.2-13.2	Weather: Cloudy, Rainy (Lt)

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: NA	Peristaltic Pump Make, Model & S/N:
YSI 600 XLM Probe S/N: NA Meter S/N: NA	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: Solinst Model 101	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: NA	Other:

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
1302 ~~1257~~	50		7.96			Pump on
1317			10.66			OFF
						very slightly turbid
1322			9.46			← Recharge info
1327			8.76			
1332			8.40			
1337			8.22			
1342			8.13			
1347			8.09			
Total Purge Volume (mL):	830					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 8.11	Well No.: PZ-02
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 11.2	Date: 10-2-12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: Rainy

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1355	60		8.11			Pump on
1358	50					very slightly turbid
1402	60					
1407						Air Gaps
1408			11.0			Pump off
1413			9.85			← Recharge info
1418			9.10			
1423			8.67			
1428			8.46			
1433			8.36			
1438			8.31			
Total Purge Volume (mL):	730					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 7.22	Well No.: PZ-03
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 10.2	Date: 10/2/12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: Rainy

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1435	50		7.22			Pump on
1440						Air bubbles in line
1442			9.20			pump off
1447			8.76			Recharge
1452			8.40			
1457			8.16			
1502			7.96			
1507			7.81			
1512			7.69			

Total Purge Volume (mL):	280

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Hyd. Cond Testing.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" P2-4	Water Level: 2.80 Ft	Well No.: P2-4
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 8.20 Ft	Date: 9.28.12
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: 65°F, Rain

Instrumentation See P2-5 for Details	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1027	50		2.80		→	Start.
1039						Almost Dry -
						not much water
						coming out
1041			7.05		→	Stop
1046			7.00		←	Recharge
1051			6.93			Details.
1056			6.84			
1107			6.73			
1112			6.66			
						Turbid Water.
						during
						Purging
Total Purge Volume (mL):	500					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Hydraulic Cond. Testing.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" PZ-5	Water Level: 4.20 Ft	Well No.: PZ-5
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 9.20 Ft	Date: 9.28.12
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: 65-75°F, Rain

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N:	Peristaltic Pump Make, Model & S/N: MasterFlex.
YSI 600 XLM Probe S/N: Meter S/N:	Water Tubing Diameter (in): ID 1/8 OD
Water Level Make, Model & S/N: Solonist.	Water Tubing Material: Teflon-Lined Poly ✓
Turbidity Make, Model & S/N:	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1010	50	[redacted]	4.20 → Start			Start - 15min
1030			6.25 → Stop			minimum
						← Recharge Details
1035			5.35			
1040			4.90			
1045			4.60			
1050			4.40			
1055			4.31			
1100			4.23			
						Turbid Water
						during
						Purging
Total Purge Volume (mL):		900				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

PZ-5

PZ-6

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 3.76 Ft.	Well No.: PZ-5
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 9.20 Ft.	Date: 10.2.2012
	Sanborn Head Rep.: AVK.	Intake Depth:	Screen Interval:	Weather: 65°F, Rain

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: —	Peristaltic Pump Make, Model & S/N: MasterFlex
YSI 600 XLM Probe S/N: — Meter S/N: —	Water Tubing Diameter (in): ID 1/8 OD ____
Water Level Make, Model & S/N: Slope Indicator	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: ____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1313	70		3.76			Start.
1330	70		7.98			Stop
1335			7.35			<- Recharge
1340			6.60			Details
1345			6.03			
1350			5.62			
1355			5.40			
1400			5.20			
						Turbid Water
Total Purge Volume (mL):	650 ml					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Hyd. Cond. Testing

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" P2-7	Water Level: 4.52 Ft	Well No.: P2-7
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 9.90 Ft.	Date: 9-28-12
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: 65°F, Heavy Rain

Instrumentation See P2-5 for Details	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1135	50		4.52			Start.
1155			8.03			Stop
1205			7.75			← Recharge Details
1210			7.42			Clear Water
1215			7.17			during Purging
1220			6.96			
1225			6.78			

Total Purge Volume (mL):	540

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Hyd. Cond. Testing.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" PZ-8	Water Level: 5.85 ft.	Well No.: PZ-8
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 10.20 ft.	Date: 9.28.12
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: 65°F, Heavy Rain

Instrumentation See PZ-5 for Details	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1147	50		5.85			Start
1207	•		8.85			Stop
1212			7.58			← Recharge Details
1217			6.77			
1222			6.40			
1232			6.11			
						Clear water during Purging

Total Purge Volume (mL):	730

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Hyd. Cond. Testing.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 6.30 ft	Well No.: PZ-9
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 10.2 ft	Date: 9.28.12
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: 65°F, Very Heavy Rain

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1455	70-80		6.30			Start
1510			8.11			Stop
						Clear Water during Purging
1515			7.25			← Recharge Details
1520			6.45			
1525			6.40			
1545			6.35			

Total Purge Volume (mL):	500

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Hyd. Cond. Testing.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" P2-10	Water Level: 6.30 ft	Well No.: P2-10
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 11.20 ft	Date: 9.28.12
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: 65°F, Very Heavy Rain

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1445	70-80		6.30			← Start
1500			7.40			← Stop.
						Turbid Water during Purging
1503			7.25			← Recharge Details
1505			7.15			
1524			6.35			
1543			6.31			
Total Purge Volume (mL):		1600				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

P2-11

Driven (+3) Ft
Based on Conv. with TNW

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: AVK

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.03 Ft	Well No.: P2-11
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 6.20 Ft	Date: 10.2.2012
	Sanborn Head Rep.: AVK	Intake Depth:	Screen Interval:	Weather: Rain, 65°F

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1428	58		2.03			Start.
1441	58		4.97			Stop
1446			4.95			← Recharge Details
1451			4.95			
1456			4.94			
1501			4.92			
1505			4.92			
1511			4.91			
						Clean Water
1605	Driven +3 Ft		Deep			
1634			6.92			Start
1641			8.08			Stop
1649	(1649)		7.89			← Recharge
1654	(1654)		7.77			
1659	(1659)		7.61			
1704	(1704)		7.52			
Total Purge Volume (mL):		375 | 150				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

PZ-12

1600 - 1.95 Ft.
(Driven +2 Feet)

PZ-12

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 3.87	Well No.: PZ-12
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 8.2 Ft	Date: 10-2-12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: 75°F, Rain

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1609	60		3.87			Start
1624	60		7.01			Stop
1629			6.56			Recharge Details
1634			5.97			
1639			5.56			
1646	(1645)		5.16			
1650	(1650)		4.85			Slight Turbid Water
1655	(1655)		4.55			
Total Purge Volume (mL):	500					

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 1.98	Well No.: PZ-13
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 6.2	Date: 10/2/12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval: 5.2-6.2	Weather: Cloudy, 60s-70s

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: Masterflex
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
10:05			1.98			
10:09	50					Pump Started
~~10:24~~						Very slight turbidity ~~more~~
10:12						Mostly air in lines
(*) 10:20	10					(still pumping), lower tube ~3"
10:24			4.48			Pump off
10:29			4.25			← Recharge info
10:34			4.01			
10:39			3.83			
10:44			3.65			
10:49			3.50			
10:54			3.35			

Total Purge Volume (mL):	350

(*) Pump speed unchanged, less water in tube

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.29 0858	Well No.: PZ-14
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 6.2	Date: 10/2/12
	Sanborn Head Rep.: REW	Intake Depth:	Screen Interval: 5.2-6.2	Weather: Cloudy, 60s

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: NA	Peristaltic Pump Make, Model & S/N: Masterflex
YSI 600 XLM Probe S/N: NA Meter S/N:	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: ~~Solinst~~ Solinst Model 101	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: NA	Other:

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
0911	50		2.29			Start purge - 15 min.
0926			2.31			Slightly turbid,
						pale orange at first,
						then clearer
0931			2.31			← Recharge details
0936			2.31			
0941			2.34			Probe tip dirty
0946			2.29			
0951			2.31			
0956			2.30			

Total Purge Volume (mL):	830

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.34	Well No.: PZ-14
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 6.2	Date: 10/2/12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather:

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1544	80		2.34			pump on
* 1547	70					
1559			2.23			pump off
1600			2.23			
						Recharge
1604			2.21			
1609			2.22			
1614			2.22			
~~1620~~						
Total Purge Volume (mL):	1000 + ~1000					At lowest pump speed setting

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.85	Well No.: PZ-15
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 6.2	Date: 10/2/12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval: 5.2-6.2	Weather: Cloudy, 70s

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: NA	Peristaltic Pump Make, Model & S/N: Master flex
YSI 600 XLM Probe S/N: NA Meter S/N: NA	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: Solinst Model 101	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: NA	Other:

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: Depth Standing Water Above Screen (ft)	Recharging: Vol. Standing Water Above Screen (mL)	Comments
* 11:14	60		2.85			Pump on
						very slightly turbid
1123						Bubbles observed in
1126						tubing. Air gaps noted
1129			4.71			Pump off
						Recharge info
1134			3.60			
1139			3.11			
1144			2.90			
1149			2.85			
1154			2.85			
1159			2.85			
Total Purge Volume (mL):	950					

60 was lowest flow rate achievable - pump at lowest setting

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 4.07	Well No.: GZ-14
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 39.2	Date: 9.28.12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: 65°F, Heavy Rain.

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1410			4.07			Total Depth = 39.2 ft.
	Total	Volume	Reqd			Used Bladder
		By	Purging	= 0.16 x 5 wlv x 35		Pump to Purge
				= ~30 gal.		
						Mice Fur
						recovered, very
						foul odor to
						water.
Total Purge Volume (mL):		~5 gal				

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

AVK/REW

Stilling Basin Transducer Info for Deployment.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level:	Well No.:
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth:	Date: 10.11.12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: 75°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID _____ OD _____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1145			2.08			Parameters.
						Temp °C - 14.29
						Pressure - 1.500
						Depth - 3.485
						Deployed @
						Bottom and
						raised 0.1 Ft.
						Parameters.
1515						Temp °C - 14.22
						Pressure - 1.349
						Depth - 3.113
1525			2.03			See Tranducer
						log for Change
						in Depth gauged
						For comparision
Total Purge Volume (mL):						

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Transducer Installation

Stilling Basin Info.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature:

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾"	Water Level: 2.06 ft	Well No.:
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 4.76 ft.	Date: 10.12.12
	Sanborn Head Rep.:	Intake Depth:	Screen Interval:	Weather: 75°F, Sunny

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: _____	Peristaltic Pump Make, Model & S/N: _____
YSI 600 XLM Probe S/N: _____ Meter S/N: _____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: _____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: _____	Other:

Time	Purging: Flow (mL/min)	Purging: Cum. Purge Vol. (mL)	Recharging: Depth to Water (ft)	Recharging: ~~Depth Standing Water Above Screen (ft)~~ → Total Depth → Ft.	Recharging: Vol. Standing Water Above Screen (~~mL~~)	Comments
1500	→		2.06	4.76	2.70	As discussed
		Tested transducer				with TMW the
			From 1550-1615			transducer was
						Placed 0.5 ft
		Redeployed	@ 1620 &		left	from Bottom
				Site		due to Silting
						effects observed
1615	→		27.625	- Scale measurement.		A measuring
						scale was
1630	→		27.625	- Scale measurement		also attached
						to Stilling Basin
1630	→		2.08	4.76	2.68	

Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (µS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Total Purge Volume (mL):	

* 10.11.12 → Total Depth – 4.88 ft.
* 10.12.12 → Total Depth – 4.76 ft.

Mini-Piezometer Purge and Sample Data Sheet

Sampler's Signature: Stilling Basin Transducer Info.

SANBORN HEAD	Project No.: 2158.01	Mini-Piezometer ID: ¾" —	Water Level: 2.52	Well No.:
	Location: Mohawk Tannery	Reference Point: Top of Stainless Riser	Total Depth: 4.75	Date: 10.15.12
	Sanborn Head Rep.: AVK	Intake Depth: —	Screen Interval:	Weather: 75°F, Cloudy

Instrumentation	Pumping Equipment and Materials
DO, Conductivity, Temperature, pH, ORP: YSI 556 MPS S/N: ____	Peristaltic Pump Make, Model & S/N: ____
YSI 600 XLM Probe S/N: ____ Meter S/N: ____	Water Tubing Diameter (in): ID ____ OD ____
Water Level Make, Model & S/N: ____	Water Tubing Material: Teflon-Lined Poly
Turbidity Make, Model & S/N: ____	Other:

Time	Purging		Recharging			Comments
	Flow (mL/min)	Cum. Purge Vol. (mL)	Depth to Water (ft)	Depth Standing Water Above Screen (ft)	Vol. Standing Water Above Screen (mL)	
1500			2.52	4.75		Scale @ 22 cm.
1530			—	—		Scale @ 22.5 cm
1700			2.37	4.75		Scal @ 24 cm

Total Purge Volume (mL):	

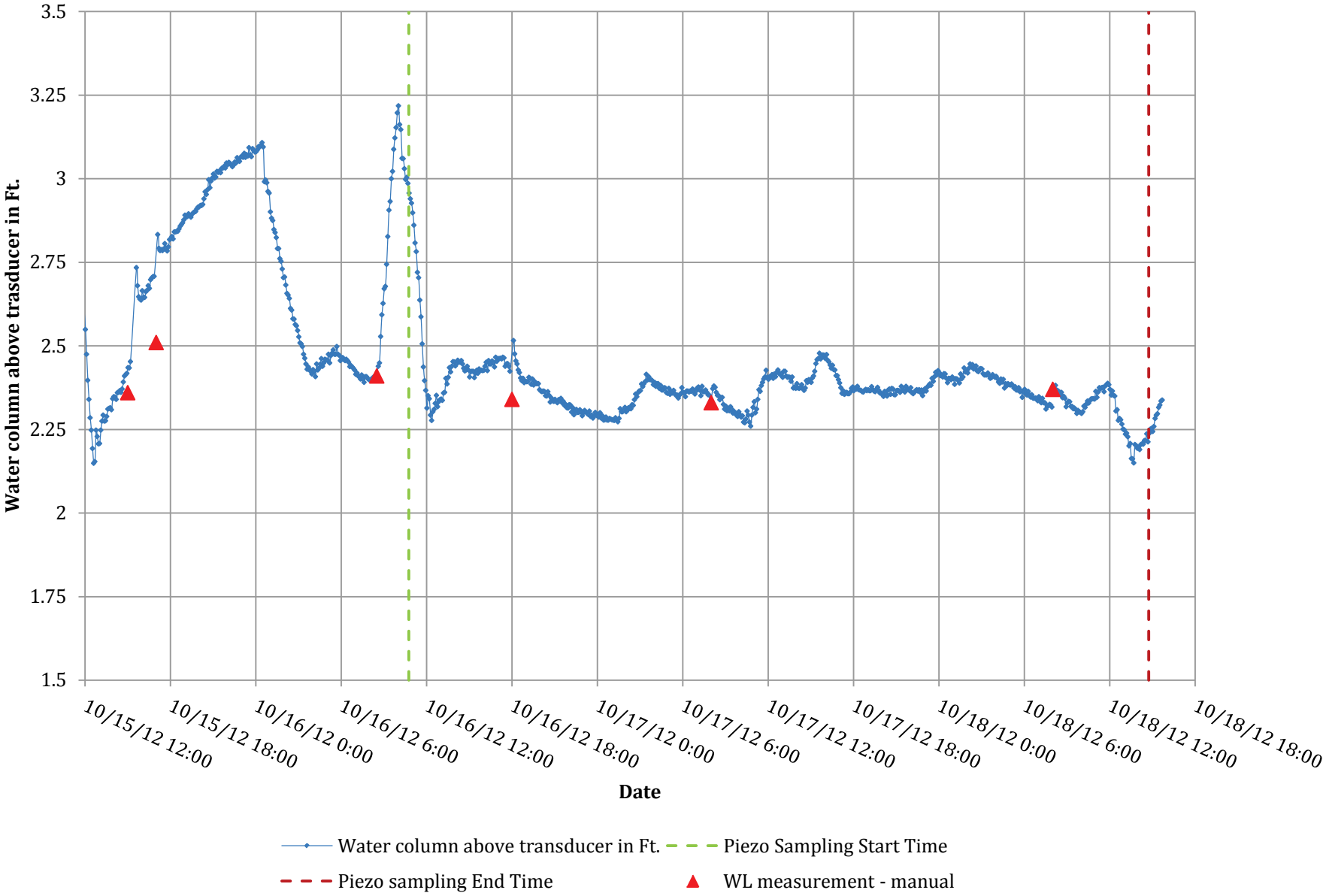
Unit Volume of Standing Water Above Screen (mL/ft)	73

Tubing Volume Calculations	
Tubing Unit Volume (mL/ft)	
Total Tubing Length (ft)	
Total Tubing Volume (mL)	

Sample and Water Quality Information	
Turbidity (NTU) (Pre-Sample Collection)	
Laboratory Sample ID	
Collection Date and Time	
Temperature (°C)	
Specific Conductance (μS/cm)	
DO (mg/l)	
pH (s.u.)	
ORP (mV)	
Turbidity (NTU) (Post-Sample Collection)	
Water Level (ft) (Post-Sampling)	

Transducer Data
10-15-12 to 10-18-12

Note: PZ-07 re-sampled 10/24/12 due to broken sample at laboratory; no transducer data available for this data.



SANBORN HEAD

File No. 2158.01 Page No. 1 of 1
Project Former Mohawk Tannery
Location Nashua, NH
Subject Survey
Calculated by MTS/AVK Date 10/25/12
Checked by _____ Date _____

	Loc	+	HI	-	Elev.	Ref
⊼1	SH-19	1.54	131.74		130.20	TPVC – BM
	PZ-13			11.93	119.81	TSS
				12.96	118.78	G
	TP 1			8.74	123.00	
	BS	5.32	128.32		123.00	
	PZ-14			8.39	119.93	TSS
				9.40	118.92	G
	TP 2			5.07	123.25	
	BS	6.60	129.85		123.25	
	PZ-15			9.55	120.30	TSS
				10.76	119.09	G
	TP3			6.81	123.04	
	BS	8.72	131.76		123.04	
	SH-19			1.57	130.19	TPVC

-0.01' error

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SANBORN HEAD

File No. 2158.01 Page No. 1 of 3
Project Former Mohawk Tannery
Location Nashua, NH
Subject Survey
Calculated by MTS/AVK Date 10/25/12
Checked by _____ Date _____

	Loc	+	HI	−	Elev.	Ref
TR2	SH-19	0.38	130.58		130.20	TPVC - BM
	GZ-10			4.77	125.81	TPVC
				4.25	126.33	R
				5.62	124.96	G
	TP1			7.77	122.81	
	BS	6.62	129.43		122.81	
	GZ-11			4.10	125.33	TPVC
				4.06	125.37	R
				4.94	124.49	G
	GZ-13			5.49	123.94	TPVC
				5.51	123.92	R
				7.26	122.17	G
	TP2			7.26	122.17	
	BS	5.09	127.26		122.17	
	PZ-10			3.61	123.65	TSS
				5.30	121.96	G
	TP3			5.44	121.82	
	BS	4.08	125.90		121.82	
	PZ-09			2.37	123.53	TSS
				3.94	121.96	G
	PZ-08			3.32	122.58	TSS
				4.20	121.70	G
	TP4			4.20	121.70	
	BS	4.85	126.55		121.70	
	TP5			5.55	121.00	
	BS	3.83	124.83		121.00	
	PZ-07			3.50	121.33	TSS
				4.51	120.32	G
	PZ-12			6.05	118.78	TSS
				7.11	117.72	G
	GZ-14			3.42	121.41	TPVC
				3.36	121.47	R
				4.45	120.38	G

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SANBORN HEAD

File No. 2158.01 Page No. 2 of 3
Project Former Mohawk Tannery
Location Nashua, NH
Subject Survey
Calculated by MTS/AVK Date 10/25/12
Checked by _____ Date _____

Loc	+	HI	-	Elev.	Ref.
PZ-06		124.83	3.13	121.70	TSS
			5.11	119.72	G
TP 6			5.11	119.72	
BS	4.31	124.03		119.72	
PZ-11			5.12	118.91	TSS
			6.38	117.65	G
PZ-05			2.17	121.86	TSS
			4.32	119.71	G
TP 7			4.32	119.71	
BS	8.39	128.10		119.71	
TP8			5.67	122.43	
BS	5.35	127.78		122.43	
PZ-04			7.87	119.91	TSS
			9.59	118.19	G
TP 9			4.23	123.55	
BS	5.13	128.68		123.55	
PZ-03			4.73	123.95	TSS
			5.84	122.84	G
TP 10			4.98	123.70	
BS	5.16	128.86		123.70	
PZ-02			3.13	125.73	TSS
			5.06	123.80	G
TP11			6.29	122.57	
BS	5.56	128.13		122.57	
PZ-01			2.25	125.88	TSS
			4.77	123.36	G
TP12			4.83	123.30	
BS	5.13	128.43		123.30	
TP 13			5.77	122.66	
BS	3.99	126.65		122.66	
TP14			3.82	122.83	
BS	7.40	130.23		122.83	

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SANBORN HEAD

File No. 2158.01 Page No. 3 of 3
Project Former Mohawk Tannery
Location Nashua, NH
Subject Survey
Calculated by MTS/AVK Date 10/25/12
Checked by _____ Date _____

Loc	+	HI	−	Elev.	Ref
TP 15		130.23	6.49	123.74	
BS	6.32	130.06		123.74	
TP 16			3.22	126.84	
BS	5.41	132.25		126.84	
SH-19			2.00	130.25	TPVC

+ 0.05' error

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4/28/12 #2158.01 AVK

Fmr. Mohawk Tannery

0715 Depart SHA-NH, Travel to Site.

0805 Arrive at Site

Weather - 65°F, Rain

0820-0920 → Water level measurements for Mini Piezometers.

0935-1230 → Hydraulic Testing for Wells. (PZ-4,5,7,8)

1300-1600 → Hydraulic Testing (PZ-9,10) for wells, set up for Purging GZ-14

1615 → Left Site

1715 → Arrive Home

AVK

10/2/12 # 2158.01 REW
Former Mohawk Tannery

0710 Depart ~~to~~ SHA-NH, travel to site

0805 Arrive at site. 60s, cloudy

0850 - Setup at wells, WL measurements and ~~w~~ mini piezometer purging/deepening.

1720 Leave site for SHA-NH

1804 Arrive @ SHA-NH

REW