CUSHING, JAMMALLO & WHEELER, INC.

MAG910221

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APR 04 2005

File: 5082 April 3, 2006

Mr. Doug Corb
US Environmental Protection Agency
RPG – NOC Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

RE: Remediation General Permit/ Notice of Intent Attachment
Residence
39 Watatic Pond Road
Ashburnham, Massachusetts
RTN 2-16042

Dear Mr. Corb:

1.0 Notice of Intent

Pursuant to the announcement of the Remediation General Permit (RGP) on September 9, 2005, please find the attached Notice of Intent (NOI) for the above-referenced site. The analytical report for the pre-treatment influent sample, supporting figures and diagrams are included as attachments to this NOI.

This NOI for the above-referenced site is submitted by Cushing, Jammallo & Wheeler, Inc. (CJW) on behalf of Roy Bros. Oil Co., Inc., 4 South Main Street, Ashburnham, Massachusetts.

2.0 Site History

At approximately 10:35 A.M. on December 22, 2005, the MA DEP was notified of a release of approximately 50 gallons of #2 fuel oil at the site. The release occurred as a result of a malfunction of the nozzle attached to the fuel delivery hose during the filling of the fuel oil aboveground storage tank (AST) at the subject residence. At that time, the MA DEP assigned Release Tracking Number 2-16042 to this 2-hour Reporting Condition and orally approved Immediate Response Action (IRA) activities. The approved IRA activities included the excavation and disposal of impacted soil and the removal of impacted groundwater. Please refer to figures 1 and 2 for a depiction of the subject site and surrounding area.

180 Stone Street, Clinton, MA 01510
Tel. 978.368.6320
Facsimile 978.368.6121

85 Constitution Lane, Suite 3B1, Danvers, MA 01923
Tel. 978.774.7224
Facsimile 978.774.7292

3.0 Treatment System Information

Petroleum-impacted groundwater will be collected from the excavation area and stored on-site in a fractionation (frac) tank. The operation of temporary dewatering system is required at the site to remove the dissolved-phase hydrocarbons from the collected groundwater, treat the groundwater with granular activated carbon (GAC), and discharge the treated groundwater to the adjacent Watatic Pond.

The on-site treatment system will contain a dewatering pump set within the frac tank that will be situated in the southern portion of the site, adjacent to the excavation area. The treatment system will consist of two liquid phase carbon canisters containing a minimum of 400-pounds of reactivated liquid-phase GAC each and will also contain a ball valve to regulate the flow into the GAC drums and a check valve to prevent back flow into the frac tank. The petroleum-impacted water will be pumped from the frac tank through the GAC canisters. If necessary, a sedimentation filter will be used to collect sediment prior to the GAC canisters and discharged to Watatic Pond. Refer to Figure 2 – Site Sketch for a depiction of the site and the flow schematic of the treatment system.

The treatment system will only be operated under the supervision of CJW personnel at a discharge rate less than 30 gallons per minute (GPM). It is anticipated that the dewatering system will be operated over a one to three week period, following US EPA RGP approval. Sample collection ports for liquid phase monitoring are located prior to discharge of the treated waste stream.

4.0 Receiving Surface Water

It is anticipated that the maximum rate of treated remedial wastewater to be discharged will not exceed 30 GPM. Treated groundwater is discharged to Watatic Pond, which eventually discharges to the Merrimack River east of the site. Based on streamflow publication data obtained from the United States Geological Survey (USGS), waters in the vicinity of Watatic Pond is reported to have a seven day-ten year flow (7Q10) of 82 cubic feet per second (cfs).

5.0 Laboratory Analytical Analysis

On March 15, 2006, personnel from CJW collected a groundwater sample (designated MW-2) from a temporary monitoring point located in the immediate vicinity of the proposed soil excavation area and submitted the sample to Con-Test Analytical Laboratories (Con-Test) in East Longmeadow, Massachusetts, for analysis. A copy of the laboratory analytical reports is included as Attachment A.

According to the analytical report for groundwater collected on March 15, 2006, the sample collected from MW-2 contained select volatile organic compounds, arsenic, chromium, copper, cyanide, iron, lead, zinc, phenolics, and volatile petroleum hydrocarbons above the laboratory method detection limit (MDL). In addition, the sample collected from MW-2 contained total suspended solids (144.0 milligrams per liter). No other compounds were detected at or above the laboratory MDL.

According to the analytical reports, the collected groundwater samples did not contain contaminant concentrations that required dilutions or created matrix interferences with the required analysis. As such, the majority of the reporting limits were found to meet or approach the US EPA minimum levels listed in Appendix VI. As such, the NOI form has been completed to reflect the RL's and reported concentrations collected from the groundwater sampling event performed on March 15, 2006. The NOI form has been included as Attachment B.

If you have any questions regarding the information presented herein, please do not hesitate to contact the undersigned at (978) 368-6320.

Very truly yours,

CUSHING, JAMMALLO & WHEELER, INC.

Michael C. Bricher, P.G., L.S.P.
Senior Project Manager

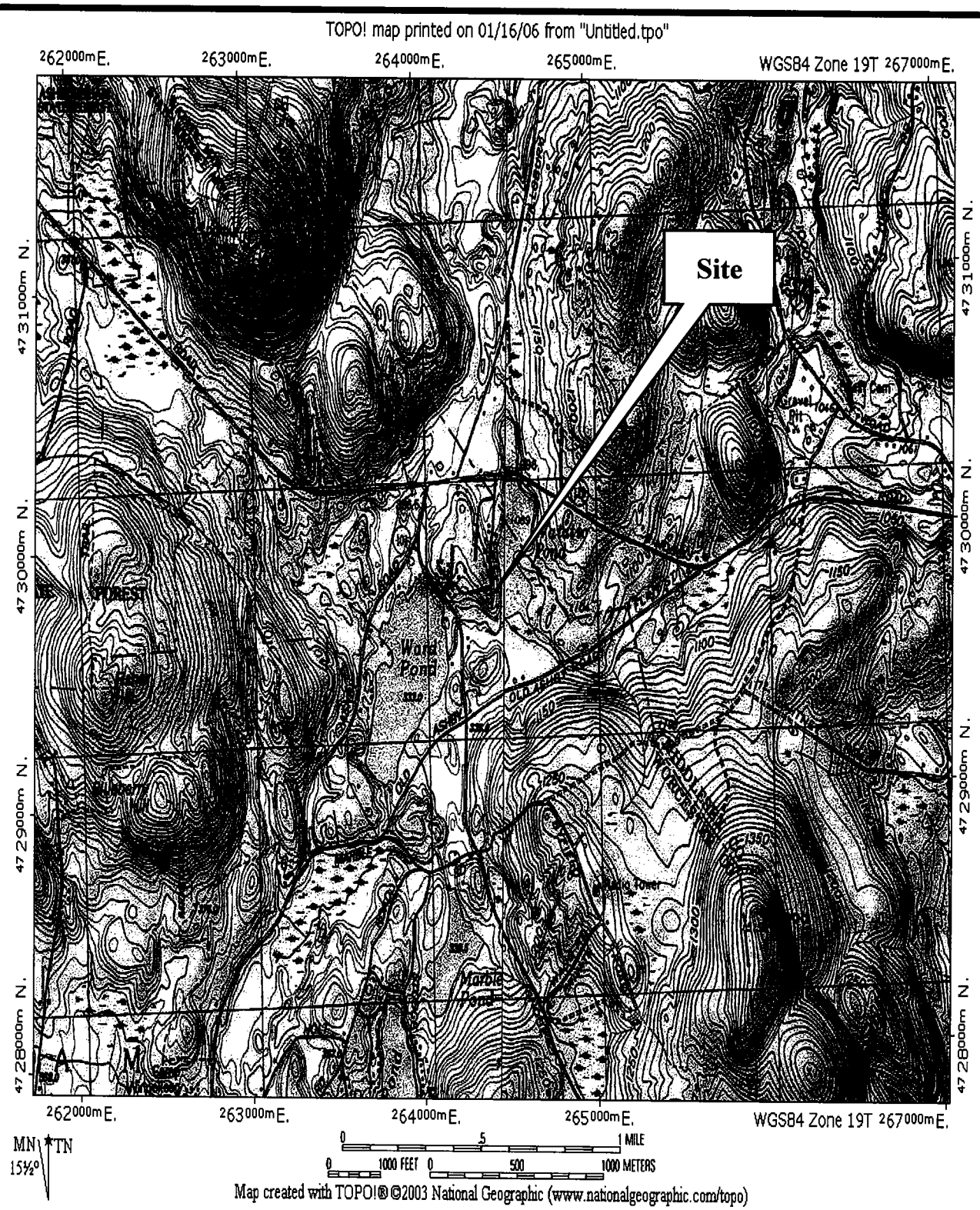
Attachments

Figures
Figure 1 – Locus Plan
Figure 2 – Site Plan – Flow Schematic Sketch

Attachment A- Groundwater Analytical Reports
Attachment B- Remediation General Permit – Notice of Intent Form

cc: MA DEP, Division of Watershed Management, 627 Main Street, 2nd Floor, Worcester, MA, 01608

FIGURES



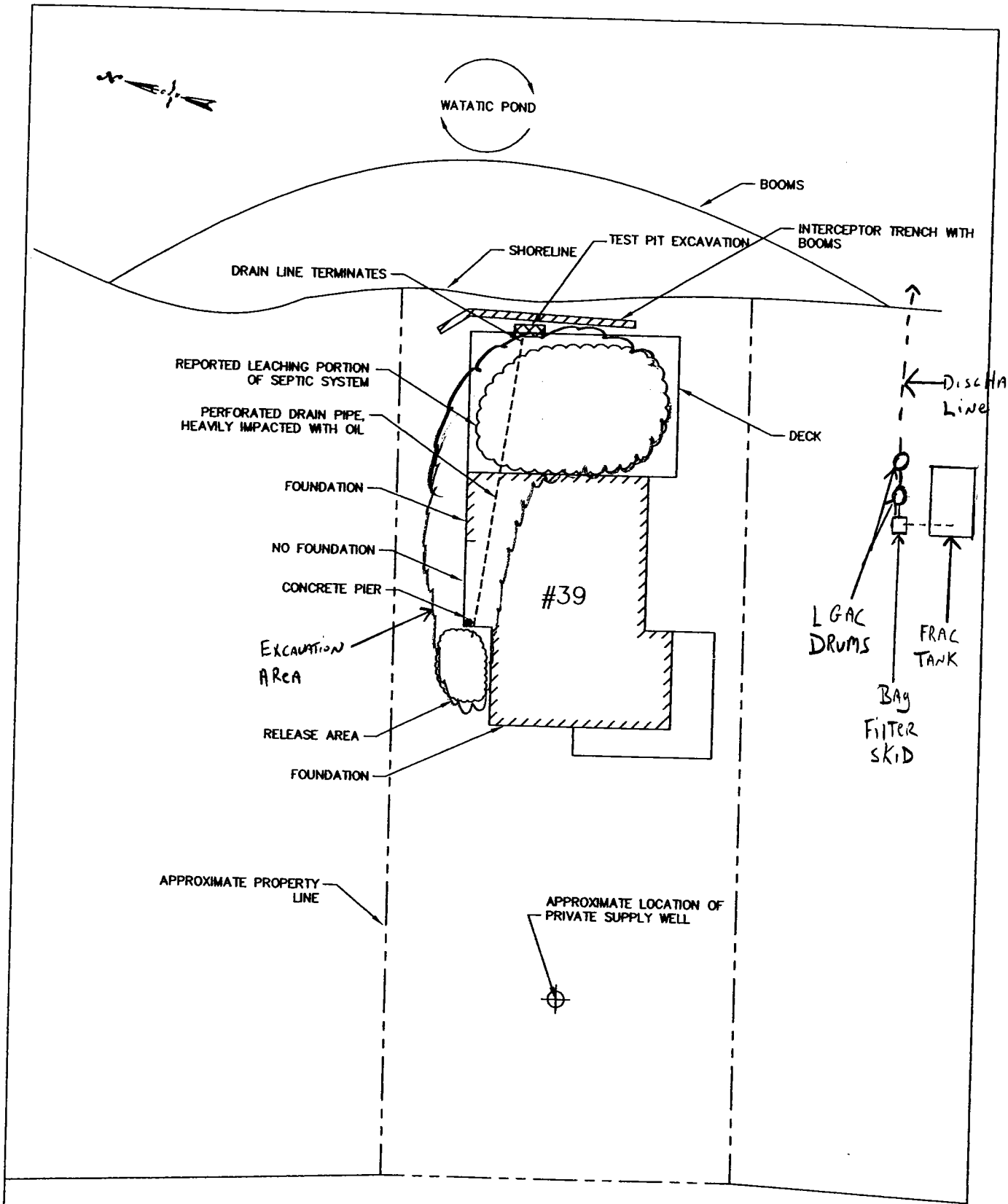
CUSHING, JAMMALLO & WHEELER, INC.

LOCUS MAP

Residence
39 Watatic Pond Road
Ashburnham, MA

N

FIGURE 1



WATATIC POND ROAD

CUSHING, JAMMALLO & WHEELER, INC.	Residence 39 Watatic Pond Road Ashburnham, Massachusetts	Site Plan Prepared for Roy Bros. Oil Co. Inc.
Figure No. 2	Scale: 1" = 20'	February 2006

ATTACHMENT A
Groundwater Analytical Report

con-test®
ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/24/2006

CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510
ATTN: MICHAEL BRICHER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-96091
JOB NUMBER: 5082

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 39 WATATIC POND

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	608 pcb	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	8260 water	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	8270 h2o low	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	ag (mg/l) furn	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	as (mg/l wet)	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	cd (mg/l) icp	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	cr (mg/l) icp	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	cu (mg/l) icp	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	cyanide-total	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	fe (mg/l) icp	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	hg (mg/l) wet	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	ni (mg/l) icp	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	pb (mg/l) furn	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	phenols	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	sb (mg/l) furn	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	se (mg/l) furn	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	tss	
MW-2	06B09416	WASTE WATE	NOT SPECIFIED	zn (mg/l) icp	
MW-2	06B09417	WASTE WATE	NOT SPECIFIED	sub special test	SUBCONTRACTED

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Comments :

LIMS BATCH NO. : LIMS-96091

NPDES CASE NARRATIVE SUMMARY

FOR METHOD 504.1 FOR EDB, WE CANNOT MEET THE 0.01 UG/L LIMIT LISTED IN APPENDIX IV OF NPDES. WE REPORT 0.02 UG/L WHICH IS THE LOWEST POINT IN OUR CURVE. ACCORDING TO AN EPA CHEMIST, 0.02 UG/L IS FINE, BUT MUST BE NARRATED.

TOTAL BTEX (TOTAL OF ALL COMPOUNDS) BY METHOD 8260 AT 2 UG/L IS NOT ATTAINABLE. WE REPORT 0.5 UG/L PER COMPOUND. WE SPOKE WITH AN EPA CHEMIST AND HE SAID TO ADD UP THE TOTAL AND NARRATE THIS.

TOTAL PHENOLS BY METHOD 420.1 OR 420.2 HAS A LIMIT OF 1 UG/L. WE CANNOT MEET THIS LIMIT.

PENTACHLOROPHENOL BY METHOD 8270 AT 5 UG/L IS UNATTAINABLE. PER THE EPA CHEMIST WE SPOKE WITH, THE NEW REVISED (LOWER) CLP IS 10 UG/L FOR PCP. WE REPORT 10 UG/L AND MEET THIS REQUIREMENT.

TOTAL PHTHALATES BY METHOD 8270 AT 5 UG/L IS UNATTAINABLE. WE ARE RESEARCHING BUT CANNOT CURRENTLY SEE THIS LIMIT. WE CURRENTLY REPORT 10-20 UG/L.

BIS(2-ETHYLHEXYL)PHTHALATE BY METHOD 8270 IS UNATTAINABLE AT THIS TIME. WE ARE RESEARCHING BUT CANNOT CURRENTLY SEE THIS LIMIT.

FOR METHOD 608, WE CANNOT MEET THE LIMIT OF 0.5 UG/L FOR TOTAL PCB'S. WE SEE INDIVIDUAL PCB'S AT 0.2 UG/L, OR, TOTAL PCB'S AT 1.4 UG/L APPROXIMATELY. PER THE EPA CHEMIST WE SPOKE WITH, THIS WAS FINE.

FOR TOTAL SUSPENDED SOLIDS, WE WILL REPORT 5 MG/L. IF THE SAMPLE MATRIX IS DIFFICULT, THE REPORTING LIMIT WILL MOST LIKELY BE HIGHER.

TOTAL RESIDUAL CHLORINE WILL BE REPORTED AT 0.02 MG/L, UNLESS THERE ARE MATRIX OR OTHER ISSUES.

FOR TOTAL RESIDUAL CHLORINE (EFFLUENT), WE CANNOT MEET THE FRESHWATER LIMIT OF 11 UG/L OR THE SURFACE WATER LIMIT OF 7.5 UG/L.

FOR CYANIDE, WE CANNOT MEET THE SURFACE WATER OR FRESHWATER LIMITS OF 1.0 UG/L OR 5.2 UG/L, RESPECTIVELY. WE REPORT 0.01 MG/L.

IN SOME CASES, DUE TO SAMPLE MATRIX OR OTHER, WE MAY NOT BE ABLE TO MEET THE REQUIRED NPDES REPORTING LIMIT.

IN METHOD 8260 WATER FOR SAMPLE 06B09416, THE REPORTED RESULTS FOR BROMOMETHANE, TERTIARY BUTYL ALCOHOL, 1,4-DIOXANE, TETRAHYDROFURAN, TRANS-1,4-DICHLORO-2-BUTENE, 2,2-DICHLOROPROPANE, DICHLORODIFLUOROMETHANE, AND NAPHTHALENE ARE ESTIMATED. EITHER THE INITIAL OR CONTINUING CALIBRATION DID NOT MEET REQUIRED CRITERIA.

IN METHOD 8270, THE REPORTED RESULTS FOR DIBENZO(A,H)ANTHRACENE AND BENZO(G,H,I)PERYLENE ARE ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION DID NOT MEET REQUIRED CRITERIA.

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 3/24/06

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

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MICHAEL BRICHER
CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510

3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : MW-2
Sample ID : 06B09416
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
PCB 1016	ug/l	ND	03/22/06	JB	0.20			
PCB-1221	ug/l	ND	03/22/06	JB	0.20			
PCB-1232	ug/l	ND	03/22/06	JB	0.20			
PCB-1242	ug/l	ND	03/22/06	JB	0.20			
PCB-1248	ug/l	ND	03/22/06	JB	0.20			
PCB-1254	ug/l	ND	03/22/06	JB	0.20			
PCB-1260	ug/l	ND	03/22/06	JB	0.20			

Analytical Method:
EPA 608
SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE, SOLVENT EXCHANGED WITH HEXANE, CONCENTRATED BY KUDERNA-DANISH OR TURBOVAP EVAPORATIVE METHODS, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/l	ND	03/21/06	LBD	50.0			
Acrylonitrile	ug/l	ND	03/21/06	LBD	5.0			
tert-Amylmethyl Ether	ug/l	ND	03/21/06	LBD	0.5			
Benzene	ug/l	7.3	03/21/06	LBD	1.0			
Bromobenzene	ug/l	ND	03/21/06	LBD	1.0			
Bromochloromethane	ug/l	ND	03/21/06	LBD	1.0			
Bromodichloromethane	ug/l	ND	03/21/06	LBD	1.0			
Bromoform	ug/l	ND	03/21/06	LBD	1.0			
Bromomethane	ug/l	ND	03/21/06	LBD	5.0			
2-Butanone (MEK)	ug/l	ND	03/21/06	LBD	20.0			
tert-Butyl Alcohol	ug/l	ND	03/21/06	LBD	20.0			
n-Butylbenzene	ug/l	ND	03/21/06	LBD	1.0			
sec-Butylbenzene	ug/l	ND	03/21/06	LBD	1.0			
tert-Butylbenzene	ug/l	ND	03/21/06	LBD	1.0			
tert-Butylethyl Ether	ug/l	ND	03/21/06	LBD	0.5			
Carbon Disulfide	ug/l	ND	03/21/06	LBD	3.0			
Carbon Tetrachloride	ug/l	ND	03/21/06	LBD	1.0			
Chlorobenzene	ug/l	ND	03/21/06	LBD	1.0			
Chlorodibromomethane	ug/l	ND	03/21/06	LBD	0.5			
Chloroethane	ug/l	ND	03/21/06	LBD	2.0			
Chloroform	ug/l	ND	03/21/06	LBD	2.0			
Chloromethane	ug/l	ND	03/21/06	LBD	2.0			
2-Chlorotoluene	ug/l	ND	03/21/06	LBD	1.0			
4-Chlorotoluene	ug/l	ND	03/21/06	LBD	1.0			
1,2-Dibromo-3-Chloropropane	ug/l	ND	03/21/06	LBD	5.0			
1,2-Dibromoethane	ug/l	ND	03/21/06	LBD	0.50			
Dibromomethane	ug/l	ND	03/21/06	LBD	1.0			
1,2-Dichlorobenzene	ug/l	ND	03/21/06	LBD	1.0			
1,3-Dichlorobenzene	ug/l	ND	03/21/06	LBD	1.0			
1,4-Dichlorobenzene	ug/l	ND	03/21/06	LBD	1.0			

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3/24/2006

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Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
trans-1,4-Dichloro-2-Butene	ug/l	ND	03/21/06	LBD	2.0			
Dichlorodifluoromethane	ug/l	ND	03/21/06	LBD	5.0			
1,1-Dichloroethane	ug/l	ND	03/21/06	LBD	1.0			
1,2-Dichloroethane	ug/l	ND	03/21/06	LBD	1.0			
1,1-Dichloroethylene	ug/l	ND	03/21/06	LBD	1.0			
cis-1,2-Dichloroethylene	ug/l	ND	03/21/06	LBD	1.0			
trans-1,2-Dichloroethylene	ug/l	ND	03/21/06	LBD	1.0			
1,2-Dichloropropane	ug/l	ND	03/21/06	LBD	1.0			
1,3-Dichloropropane	ug/l	ND	03/21/06	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	03/21/06	LBD	1.0			
1,1-Dichloropropene	ug/l	ND	03/21/06	LBD	2.0			
cis-1,3-Dichloropropene	ug/l	ND	03/21/06	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	03/21/06	LBD	0.5			
Diethyl Ether	ug/l	ND	03/21/06	LBD	2.0			
Diisopropyl Ether	ug/l	ND	03/21/06	LBD	0.5			
1,4-Dioxane	ug/l	ND	03/21/06	LBD	50.0			
Ethyl Benzene	ug/l	7.0	03/21/06	LBD	1.0			
Hexachlorobutadiene	ug/l	ND	03/21/06	LBD	1.0			
2-Hexanone	ug/l	ND	03/21/06	LBD	10.0			
Isopropylbenzene	ug/l	ND	03/21/06	LBD	1.0			
p-Isopropyltoluene	ug/l	ND	03/21/06	LBD	1.0			
MTBE	ug/l	1.4	03/21/06	LBD	1.0			
Methylene Chloride	ug/l	ND	03/21/06	LBD	5.0			
MIBK	ug/l	ND	03/21/06	LBD	10.0			
Naphthalene	ug/l	3.3	03/21/06	LBD	2.0			
n-Propylbenzene	ug/l	ND	03/21/06	LBD	1.0			
Styrene	ug/l	ND	03/21/06	LBD	1.0			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/21/06	LBD	1.0			
1,1,2,2-Tetrachloroethane	ug/l	ND	03/21/06	LBD	0.5			
Tetrachloroethylene	ug/l	ND	03/21/06	LBD	1.0			

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Job Number: 5082

Sample ID : 06B09416

Sampled : 3/15/2006
NOT SPECIFIED

Sample Matrix: WASTE WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Tetrahydrofuran	ug/l	ND	03/21/06	LBD	10.0			
Toluene	ug/l	ND	03/21/06	LBD	1.0			
1,2,3-Trichlorobenzene	ug/l	ND	03/21/06	LBD	5.0			
1,2,4-Trichlorobenzene	ug/l	ND	03/21/06	LBD	1.0			
1,1,1-Trichloroethane	ug/l	ND	03/21/06	LBD	1.0			
1,1,2-Trichloroethane	ug/l	ND	03/21/06	LBD	1.0			
Trichloroethylene	ug/l	ND	03/21/06	LBD	1.0			
Trichlorofluoromethane	ug/l	ND	03/21/06	LBD	2.0			
1,2,3-Trichloropropane	ug/l	ND	03/21/06	LBD	2.0			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	03/21/06	LBD	5.0			
1,2,4-Trimethylbenzene	ug/l	12.9	03/21/06	LBD	1.0			
1,3,5-Trimethylbenzene	ug/l	3.4	03/21/06	LBD	1.0			
Vinyl Chloride	ug/l	ND	03/21/06	LBD	2.0			
m + p Xylene	ug/l	47.1	03/21/06	LBD	2.0			
o-Xylene	ug/l	30.7	03/21/06	LBD	1.0			

Analytical Method:
SW846 8260
SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

RL = Reporting Limit

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Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	ug/l	ND	03/21/06	BGL	0.30			
Acenaphthylene	ug/l	ND	03/21/06	BGL	0.30			
Acetophenone	ug/l	ND	03/21/06	BGL	10.0			
Aniline	ug/l	ND	03/21/06	BGL	5.00			
Anthracene	ug/l	ND	03/21/06	BGL	0.20			
Benzoic Acid	ug/l	ND	03/21/06	BGL	30.0			
Benzo(a)anthracene	ug/l	ND	03/21/06	BGL	0.050			
Benzo(a)pyrene	ug/l	ND	03/21/06	BGL	0.100			
Benzo(b)fluoranthene	ug/l	ND	03/21/06	BGL	0.050			
Benzo(g,h,i)perylene	ug/l	ND	03/21/06	BGL	0.500			
Benzo(k)fluoranthene	ug/l	ND	03/21/06	BGL	0.200			
Bis(2-chloroethoxy)methane	ug/l	ND	03/21/06	BGL	10.0			
Bis(2-chloroethyl)ether	ug/l	ND	03/21/06	BGL	10.0			
Bis(2-chloroisopropyl)ether	ug/l	ND	03/21/06	BGL	10.0			
Bis(2-ethylhexyl)phthalate	ug/l	ND	03/21/06	BGL	1.00			
4-Bromophenyl phenyl ether	ug/l	ND	03/21/06	BGL	10.0			
Butylbenzylphthalate	ug/l	ND	03/21/06	BGL	20.0			
4-Chloroaniline	ug/l	ND	03/21/06	BGL	20.0			
4-Chloro-3-methylphenol	ug/l	ND	03/21/06	BGL	20.0			
2-Chloronaphthalene	ug/l	ND	03/21/06	BGL	10.0			
2-Chlorophenol	ug/l	ND	03/21/06	BGL	10.0			
4-Chlorophenylphenyl ether	ug/l	ND	03/21/06	BGL	10.0			
Chrysene	ug/l	ND	03/21/06	BGL	0.20			
Dibenzofuran	ug/l	ND	03/21/06	BGL	10.0			
Dibenz(a,h)anthracene	ug/l	ND	03/21/06	BGL	0.500			
1,2-Dichlorobenzene	ug/l	ND	03/21/06	BGL	5.00			
1,3-Dichlorobenzene	ug/l	ND	03/21/06	BGL	5.00			
1,4-Dichlorobenzene	ug/l	ND	03/21/06	BGL	5.00			
3,3-Dichlorobenzidine	ug/l	ND	03/21/06	BGL	10.0			
2,4-Dichlorophenol	ug/l	ND	03/21/06	BGL	10.0			

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

MICHAEL BRICHER
CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510

3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : MW-2
Sample ID : 06B09416
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Diethylphthalate	ug/l	ND	03/21/06	BGL	10.0			
2,4-Dimethylphenol	ug/l	ND	03/21/06	BGL	40.0			
Dimethylphthalate	ug/l	ND	03/21/06	BGL	20.0			
Di-n-butylphthalate	ug/l	ND	03/21/06	BGL	10.0			
Di-n-octylphthalate	ug/l	ND	03/21/06	BGL	20.0			
4,6-Dinitro-2-methylphenol	ug/l	ND	03/21/06	BGL	10.0			
2,4-Dinitrophenol	ug/l	ND	03/21/06	BGL	20.0			
2,4-Dinitrotoluene	ug/l	ND	03/21/06	BGL	10.0			
2,6-Dinitrotoluene	ug/l	ND	03/21/06	BGL	10.0			
1,2-Diphenylhydrazine (as Azobenzene)	ug/l	ND	03/21/06	BGL	10.0			
Fluoranthene	ug/l	ND	03/21/06	BGL	0.50			
Fluorene	ug/l	ND	03/21/06	BGL	1.00			
Hexachlorobenzene	ug/l	ND	03/21/06	BGL	0.05			
Hexachlorobutadiene	ug/l	ND	03/21/06	BGL	0.20			
Hexachlorocyclopentadiene	ug/l	ND	03/21/06	BGL	20.0			
Hexachloroethane	ug/l	ND	03/21/06	BGL	1.00			
Indeno(1,2,3-cd)pyrene	ug/l	ND	03/21/06	BGL	0.500			
Isophorone	ug/l	ND	03/21/06	BGL	10.0			
o-cresol	ug/l	ND	03/21/06	BGL	10.0			
m & p-Cresol(s)	ug/l	ND	03/21/06	BGL	20.0			
2-Methylnaphthalene	ug/l	ND	03/21/06	BGL	1.00			
Naphthalene	ug/l	ND	03/21/06	BGL	1.00			
2-Nitroaniline	ug/l	ND	03/21/06	BGL	10.0			
3-Nitroaniline	ug/l	ND	03/21/06	BGL	10.0			
4-Nitroaniline	ug/l	ND	03/21/06	BGL	10.0			
Nitrobenzene	ug/l	ND	03/21/06	BGL	10.0			
2-Nitrophenol	ug/l	ND	03/21/06	BGL	10.0			
4-Nitrophenol	ug/l	ND	03/21/06	BGL	20.0			
N-Nitrosodiphenylamine	ug/l	ND	03/21/06	BGL	10.0			

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Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
N-Nitroso-di-n-propylamine	ug/l	ND	03/21/06	BGL	10.0			
Pentachlorophenol	ug/l	ND	03/21/06	BGL	1.00			
Phenanthrene	ug/l	ND	03/21/06	BGL	0.10			
Phenol	ug/l	ND	03/21/06	BGL	10.0			
Pyrene	ug/l	ND	03/21/06	BGL	1.00			
Pyridine	ug/l	ND	03/21/06	BGL	5.0			
1,2,4-Trichlorobenzene	ug/l	ND	03/21/06	BGL	5.00			
2,4,5-Trichlorophenol	ug/l	ND	03/21/06	BGL	10.0			
2,4,6-Trichlorophenol	ug/l	ND	03/21/06	BGL	10.0			

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE, FOLLOWED BY KUDERNA-DANISH OR TURBOVAP EVAPORATIVE CONCENTRATION AND QUANTITATED BY GC/MS TARGET COMPOUND ANALYSIS

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Date Received: 3/17/2006
Field Sample # : MW-2

LIMS-BAT #: LIMS-96091
Job Number: 5082

Sample ID : 06B09416

Sampled : 3/15/2006
NOT SPECIFIED

Sample Matrix: WASTE WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Silver	mg/l	ND	03/21/06	AMP	0.0010			

Analytical Method:
SM 3113 B AG
GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROSCOPY

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Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : **MW-2**
Sample ID : **06B09416**
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Arsenic	mg/l	0.0015	03/21/06	AMP	0.0010			

Analytical Method:
SM 3113 B AS
SAMPLES ARE DIGESTED WITH NITRIC ACID AND ANALYZED BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROPHOTOMETRY.

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NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Cadmium	mg/l	ND	03/19/06	SDT	0.0005			

Analytical Method:
EPA 200.7/SW846 6010
SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Chromium	mg/l	0.036	03/19/06	SDT	0.004			

Analytical Method:
EPA 200.7/SW846 6010
SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Copper	mg/l	0.0014	03/19/06	SDT	0.0005			

Analytical Method:
EPA 200.7/SW846 6010
SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Cyanide	mg/l	0.043	03/21/06	VAK	0.010			

Analytical Method:
SM 4500 CN E
DISTILLATION FOLLOWED BY REACTION WITH CHLORAMINE-T/PYRIDINE-BARBITURIC ACID AND PHOSPHATE BUFFER.

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Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Iron	mg/l	7.48	03/19/06	SDT	0.02			

Analytical Method:
EPA 200.7/SW846 6010
SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Mercury	mg/l	ND	03/20/06	SY	0.00004			

Analytical Method:
EPA 245.1/SW846 7470
COLD VAPOR TECHNIQUE (FLAMELESS ABSORPTION AT 254 NM)

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Sample ID : 06B09416
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Nickel	mg/l	ND	03/19/06	SDT	0.003			

Analytical Method:
EPA 200.7/SW846 6010
SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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LIMS-BAT #: LIMS-96091
Job Number: 5082

Sample ID : 06B09416

Sampled : 3/15/2006
NOT SPECIFIED

Sample Matrix: WASTE WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Lead	mg/l	0.0011	03/24/06	AMP	0.0010			

Analytical Method:
SM 3113 B PB
GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROSCOPY

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Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Phenolics	mg/l	0.0760	03/23/06	SBP	0.0500			

Analytical Method:
EPA 420.1
SAMPLE DISTILLATION WITH ACID AND COPPER SULFATE. PHENOLICS REACT WITH 4-AAP IN THE PRESENCE OF POTASSIUM FERRICYANIDE UNDER BASIC CONDITIONS TO FORM ANITIPYRINE DYE WHICH IS ANALYZED BY COLORIMETRIC TECHNIQUES.

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Sampled : 3/15/2006
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Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Antimony	mg/l	ND	03/22/06	AMP	0.0030			

Analytical Method:
SM 3113 B SB/SW7041
SAMPLES ARE DIGESTED WITH NITRIC ACID AND ANALYZED BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROPHOTOEMTRY.

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Sample ID : 06B09416
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Selenium	mg/l	ND	03/23/06	AMP	0.0010			

Analytical Method:
SM 3113 B SE
GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROSCOPY

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Sample ID : 06B09417
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/22/06	PEL				

SUBCONTRACTED ANALYSIS FOR OIL & GREASE (HYDROCARBON FRACTION) BY METHOD MOD. E1664A.

RESULTS	RL	UNITS
<1.4	1.4	mg/L

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Sample ID : 06B09416
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Total suspended solids	mg/l	144.	03/17/06	LL	5.0			

Analytical Method:
SM 2540 D
GRAVIMETRIC DETERMINATION OF TOTAL SOLIDS RETAINED ON A GLASS FIBER FILTER AFTER DRYING AT 103-105 C.

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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MICHAEL BRICHER
CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510

3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : **MW-2**
Sample ID : **06B09416**
Sampled : 3/15/2006
NOT SPECIFIED
Sample Matrix: WASTE WATER

LIMS-BAT #: LIMS-96091
Job Number: 5082

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Zinc	mg/l	0.034	03/19/06	SDT	0.005			

Analytical Method:
EPA 200.7/SW846 6010
SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006

LIMS-BAT #: LIMS-96091
Job Number: 5082

** END OF REPORT **

RL = Reporting Limit

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: CYANIDE-2125

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-49959					
	Cyanide	Lab Fort Blank Amt.	0.386	mg/l	
		Lab Fort Blk. Found	0.406	mg/l	
		Lab Fort Blk. % Rec.	105.181	%	
STDADD-30793					
	Cyanide	Standard Measured	0.334	mg/l	
		Standard Amt Added	0.353	mg/l	
		Standard % Recovery	94.618	%	80-120

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Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: GC/ECD-8525

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09416					
	Decachlorobiphenyl	Surrogate Recovery	74.0	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	106.0	%	30-150
BLANK-86102					
	PCB-1232	Blank	<0.20	ug/l	
	PCB-1242	Blank	<0.20	ug/l	
	PCB-1254	Blank	<0.20	ug/l	
	PCB-1260	Blank	<0.20	ug/l	
	PCB-1248	Blank	<0.20	ug/l	
	PCB-1221	Blank	<0.20	ug/l	
	PCB 1016	Blank	<0.20	ug/l	

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Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: GCMS/SEMI-8031

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09416					
	Phenol-d6	Surrogate Recovery	63.5	%	15-110
	Nitrobenzene-d5	Surrogate Recovery	77.0	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	70.0	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	88.5	%	15-110
	Terphenyl-d14	Surrogate Recovery	91.0	%	30-130
	2-Fluorophenol	Surrogate Recovery	90.0	%	15-110
BLANK-86082					
	1,4-Dichlorobenzene	Blank	<5.00	ug/l	
	Naphthalene	Blank	<1.00	ug/l	
	1,2-Dichlorobenzene	Blank	<5.00	ug/l	
	1,3-Dichlorobenzene	Blank	<5.00	ug/l	
	Acenaphthene	Blank	<0.30	ug/l	
	Acenaphthylene	Blank	<0.30	ug/l	
	Aniline	Blank	<5.00	ug/l	
	Anthracene	Blank	<0.20	ug/l	
	Benzo(a)anthracene	Blank	<0.050	ug/l	
	Benzo(a)pyrene	Blank	<0.100	ug/l	
	Benzo(b)fluoranthene	Blank	<0.050	ug/l	
	Benzo(g,h,i)perylene	Blank	<0.500	ug/l	
	Benzoic Acid	Blank	<30.0	ug/l	
	Bis(2-chloroethyl)ether	Blank	<10.0	ug/l	
	Bis(2-chloroethoxy)methane	Blank	<10.0	ug/l	
	Bis(2-chloroisopropyl)ether	Blank	<10.0	ug/l	
	Bis(2-ethylhexyl)phthalate	Blank	<1.00	ug/l	
	4-Bromophenyl phenyl ether	Blank	<10.0	ug/l	
	Butylbenzylphthalate	Blank	<20.0	ug/l	
	4-Chloroaniline	Blank	<20.0	ug/l	
	2-Chloronaphthalene	Blank	<10.0	ug/l	
	4-Chlorophenylphenyl ether	Blank	<10.0	ug/l	
	Chrysene	Blank	<0.20	ug/l	
	Dibenz(a,h)anthracene	Blank	<0.500	ug/l	
	Dibenzofuran	Blank	<10.0	ug/l	
	3,3-Dichlorobenzidine	Blank	<10.0	ug/l	
	Diethylphthalate	Blank	<10.0	ug/l	
	Dimethylphthalate	Blank	<20.0	ug/l	
	Di-n-butylphthalate	Blank	<10.0	ug/l	
	2,4-Dinitrotoluene	Blank	<10.0	ug/l	
	2,6-Dinitrotoluene	Blank	<10.0	ug/l	
	1,2-Diphenylhydrazine (as Azobenzene)	Blank	<10.0	ug/l	
	Di-n-octylphthalate	Blank	<20.0	ug/l	
	Fluoranthene	Blank	<0.50	ug/l	
	Fluorene	Blank	<1.00	ug/l	
	Hexachlorobenzene	Blank	<0.05	ug/l	

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Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: GCMS/SEMI-8031

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-86082					
	Hexachlorobutadiene	Blank	<0.20	ug/l	
	Hexachlorocyclopentadiene	Blank	<20.0	ug/l	
	Hexachloroethane	Blank	<1.00	ug/l	
	Indeno(1,2,3-cd)pyrene	Blank	<0.500	ug/l	
	Isophorone	Blank	<10.0	ug/l	
	2-Methylnaphthalene	Blank	<1.00	ug/l	
	2-Nitroaniline	Blank	<10.0	ug/l	
	3-Nitroaniline	Blank	<10.0	ug/l	
	Nitrobenzene	Blank	<10.0	ug/l	
	N-Nitroso-di-n-propylamine	Blank	<10.0	ug/l	
	N-Nitrosodiphenylamine	Blank	<10.0	ug/l	
	Phenanthrene	Blank	<0.10	ug/l	
	Pyrene	Blank	<1.00	ug/l	
	1,2,4-Trichlorobenzene	Blank	<5.00	ug/l	
	4-Chloro-3-methylphenol	Blank	<20.0	ug/l	
	2-Chlorophenol	Blank	<10.0	ug/l	
	2,4-Dichlorophenol	Blank	<10.0	ug/l	
	2,4-Dimethylphenol	Blank	<40.0	ug/l	
	4,6-Dinitro-2-methylphenol	Blank	<10.0	ug/l	
	2,4-Dinitrophenol	Blank	<20.0	ug/l	
	o-cresol	Blank	<10.0	ug/l	
	m & p-Cresol(s)	Blank	<20.0	ug/l	
	2-Nitrophenol	Blank	<10.0	ug/l	
	4-Nitrophenol	Blank	<20.0	ug/l	
	Phenol	Blank	<10.0	ug/l	
	2,4,5-Trichlorophenol	Blank	<10.0	ug/l	
	2,4,6-Trichlorophenol	Blank	<10.0	ug/l	
	Pentachlorophenol	Blank	<1.00	ug/l	
	Pyridine	Blank	<5.0	ug/l	
	Benzo(k)fluoranthene	Blank	<0.200	ug/l	
	4-Nitroaniline	Blank	<10.0	ug/l	
	Acetophenone	Blank	<10.0	ug/l	
LFBLANK-50024					
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	67.33	ug/l	
		Lab Fort Blk. % Rec.	67.33	%	30-130
	Naphthalene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	71.36	ug/l	
		Lab Fort Blk. % Rec.	71.36	%	30-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	68.46	ug/l	
		Lab Fort Blk. % Rec.	68.46	%	30-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	

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QC Batch Number: GCMS/SEMI-8031

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50024					
	1,3-Dichlorobenzene	Lab Fort Blk. Found	68.02	ug/l	
		Lab Fort Blk. % Rec.	68.02	%	30-130
	Acenaphthene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	83.83	ug/l	
		Lab Fort Blk. % Rec.	83.83	%	40-140
	Acenaphthylene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	83.77	ug/l	
		Lab Fort Blk. % Rec.	83.77	%	40-140
	Aniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	73.44	ug/l	
		Lab Fort Blk. % Rec.	73.44	%	
	Anthracene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	86.76	ug/l	
		Lab Fort Blk. % Rec.	86.76	%	40-140
	Benzo(a)anthracene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	98.960	ug/l	
		Lab Fort Blk. % Rec.	98.960	%	40-140
	Benzo(a)pyrene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	101.490	ug/l	
		Lab Fort Blk. % Rec.	101.490	%	40-140
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	113.610	ug/l	
		Lab Fort Blk. % Rec.	113.610	%	40-140
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	110.340	ug/l	
		Lab Fort Blk. % Rec.	110.340	%	30-130
	Benzoic Acid	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	19.66	ug/l	
		Lab Fort Blk. % Rec.	19.66	%	
	Bis(2-chloroethyl)ether	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	85.60	ug/l	
		Lab Fort Blk. % Rec.	85.60	%	30-130
	Bis(2-chloroethoxy)methane	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	87.16	ug/l	
		Lab Fort Blk. % Rec.	87.16	%	
	Bis(2-chloroisopropyl)ether	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	77.36	ug/l	
		Lab Fort Blk. % Rec.	77.36	%	30-130
	Bis(2-ethylhexyl)phthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	100.36	ug/l	
		Lab Fort Blk. % Rec.	100.36	%	30-130
	4-Bromophenyl phenyl ether	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	83.29	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50024					
	4-Bromophenyl phenyl ether	Lab Fort Blk. % Rec.	83.29	%	
	Butylbenzylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	110.98	ug/l	
		Lab Fort Blk. % Rec.	110.98	%	
	4-Chloroaniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	77.94	ug/l	
		Lab Fort Blk. % Rec.	77.94	%	40-140
	2-Chloronaphthalene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	87.43	ug/l	
		Lab Fort Blk. % Rec.	87.43	%	
	4-Chlorophenylphenyl ether	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	94.45	ug/l	
		Lab Fort Blk. % Rec.	94.45	%	
	Chrysene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	89.43	ug/l	
		Lab Fort Blk. % Rec.	89.43	%	40-140
	Dibenz(a,h)anthracene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	118.050	ug/l	
		Lab Fort Blk. % Rec.	118.050	%	30-130
	Dibenzofuran	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	86.10	ug/l	
		Lab Fort Blk. % Rec.	86.10	%	40-140
	3,3-Dichlorobenzidine	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	93.14	ug/l	
		Lab Fort Blk. % Rec.	93.14	%	40-140
	Diethylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	97.01	ug/l	
		Lab Fort Blk. % Rec.	97.01	%	30-130
	Dimethylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	98.33	ug/l	
		Lab Fort Blk. % Rec.	98.33	%	10-130
	Di-n-butylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	93.59	ug/l	
		Lab Fort Blk. % Rec.	93.59	%	40-140
	2,4-Dinitrotoluene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	107.23	ug/l	
		Lab Fort Blk. % Rec.	107.23	%	40-140
	2,6-Dinitrotoluene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	99.46	ug/l	
		Lab Fort Blk. % Rec.	99.46	%	40-140
	1,2-Diphenylhydrazine (as Azobenzene)	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	96.44	ug/l	
		Lab Fort Blk. % Rec.	96.44	%	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50024					
	Di-n-octylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	105.40	ug/l	
		Lab Fort Blk. % Rec.	105.40	%	
	Fluoranthene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	90.54	ug/l	
		Lab Fort Blk. % Rec.	90.54	%	40-140
	Fluorene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	81.38	ug/l	
		Lab Fort Blk. % Rec.	81.38	%	40-140
	Hexachlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	89.13	ug/l	
		Lab Fort Blk. % Rec.	89.13	%	40-140
	Hexachlorobutadiene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	74.42	ug/l	
		Lab Fort Blk. % Rec.	74.42	%	20-130
	Hexachlorocyclopentadiene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	82.41	ug/l	
		Lab Fort Blk. % Rec.	82.41	%	
	Hexachloroethane	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	76.61	ug/l	
		Lab Fort Blk. % Rec.	76.61	%	20-130
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	120.250	ug/l	
		Lab Fort Blk. % Rec.	120.250	%	40-140
	Isophorone	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	87.35	ug/l	
		Lab Fort Blk. % Rec.	87.35	%	40-140
	2-Methylnaphthalene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	75.50	ug/l	
		Lab Fort Blk. % Rec.	75.50	%	30-130
	2-Nitroaniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	106.02	ug/l	
		Lab Fort Blk. % Rec.	106.02	%	
	3-Nitroaniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	95.86	ug/l	
		Lab Fort Blk. % Rec.	95.86	%	
	Nitrobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	83.94	ug/l	
		Lab Fort Blk. % Rec.	83.94	%	30-130
	N-Nitroso-di-n-propylamine	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	78.07	ug/l	
		Lab Fort Blk. % Rec.	78.07	%	30-108
	N-Nitrosodiphenylamine	Lab Fort Blank Amt.	100.00	ug/l	

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QC Batch Number: GCMS/SEMI-8031

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50024					
	N-Nitrosodiphenylamine	Lab Fort Blk. Found	133.98	ug/l	
		Lab Fort Blk. % Rec.	133.98	%	
	Phenanthrene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	87.01	ug/l	
		Lab Fort Blk. % Rec.	87.01	%	40-140
	Pyrene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	99.05	ug/l	
		Lab Fort Blk. % Rec.	99.05	%	40-140
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	73.32	ug/l	
		Lab Fort Blk. % Rec.	73.32	%	30-130
	4-Chloro-3-methylphenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	88.07	ug/l	
		Lab Fort Blk. % Rec.	88.07	%	32-120
	2-Chlorophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	73.16	ug/l	
		Lab Fort Blk. % Rec.	73.16	%	30-130
	2,4-Dichlorophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	80.19	ug/l	
		Lab Fort Blk. % Rec.	80.19	%	30-130
	2,4-Dimethylphenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	83.11	ug/l	
		Lab Fort Blk. % Rec.	83.11	%	30-130
	4,6-Dinitro-2-methylphenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	72.00	ug/l	
		Lab Fort Blk. % Rec.	72.00	%	
	2,4-Dinitrophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	63.13	ug/l	
		Lab Fort Blk. % Rec.	63.13	%	10-130
	o-cresol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	69.61	ug/l	
		Lab Fort Blk. % Rec.	69.61	%	30-130
	m & p-Cresol(s)	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	63.95	ug/l	
		Lab Fort Blk. % Rec.	63.95	%	30-130
	2-Nitrophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	78.83	ug/l	
		Lab Fort Blk. % Rec.	78.83	%	30-130
	4-Nitrophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	30.43	ug/l	
		Lab Fort Blk. % Rec.	30.43	%	14-100
	Phenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	37.59	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: GCMS/SEMI-8031

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50024					
	Phenol	Lab Fort Blk. % Rec.	37.59	%	20-130
	2,4,5-Trichlorophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	82.73	ug/l	
		Lab Fort Blk. % Rec.	82.73	%	30-130
	2,4,6-Trichlorophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	70.55	ug/l	
		Lab Fort Blk. % Rec.	70.55	%	30-130
	Pentachlorophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	82.11	ug/l	
		Lab Fort Blk. % Rec.	82.11	%	30-130
	Pyridine	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	45.2	ug/l	
		Lab Fort Blk. % Rec.	45.2	%	
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	94.460	ug/l	
		Lab Fort Blk. % Rec.	94.460	%	40-140
	4-Nitroaniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	96.71	ug/l	
		Lab Fort Blk. % Rec.	96.71	%	
	Acetophenone	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	81.88	ug/l	
		Lab Fort Blk. % Rec.	81.88	%	

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QC SUMMARY REPORT

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BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: GCMS/VOL-14207

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09416					
	1,2-Dichloroethane-d4	Surrogate Recovery	115.1	%	70-130
	Toluene-d8	Surrogate Recovery	100.3	%	70-130
	Bromofluorobenzene	Surrogate Recovery	104.0	%	70-130
BLANK-86053					
	Acetone	Blank	<50.0	ug/l	
	Benzene	Blank	<1.0	ug/l	
	Carbon Tetrachloride	Blank	<1.0	ug/l	
	Chloroform	Blank	<2.0	ug/l	
	1,2-Dichloroethane	Blank	<1.0	ug/l	
	1,4-Dichlorobenzene	Blank	<1.0	ug/l	
	Ethyl Benzene	Blank	<1.0	ug/l	
	2-Butanone (MEK)	Blank	<20.0	ug/l	
	MIBK	Blank	<10.0	ug/l	
	Naphthalene	Blank	<2.0	ug/l	
	Styrene	Blank	<1.0	ug/l	
	Tetrachloroethylene	Blank	<1.0	ug/l	
	Toluene	Blank	<1.0	ug/l	
	1,1,1-Trichloroethane	Blank	<1.0	ug/l	
	Trichloroethylene	Blank	<1.0	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<5.0	ug/l	
	Trichlorofluoromethane	Blank	<2.0	ug/l	
	o-Xylene	Blank	<1.0	ug/l	
	m + p Xylene	Blank	<2.0	ug/l	
	1,2-Dichlorobenzene	Blank	<1.0	ug/l	
	1,3-Dichlorobenzene	Blank	<1.0	ug/l	
	1,1-Dichloroethane	Blank	<1.0	ug/l	
	1,1-Dichloroethylene	Blank	<1.0	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<1.0	ug/l	
	trans-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	Vinyl Chloride	Blank	<2.0	ug/l	
	Methylene Chloride	Blank	<5.0	ug/l	
	Chlorobenzene	Blank	<1.0	ug/l	
	Chloromethane	Blank	<2.0	ug/l	
	Bromomethane	Blank	<5.0	ug/l	
	Chloroethane	Blank	<2.0	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.5	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<1.0	ug/l	
	Bromoform	Blank	<1.0	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<1.0	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: GCMS/VOL-14207

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-86053					
	Hexachlorobutadiene	Blank	<1.0	ug/l	
	Isopropylbenzene	Blank	<1.0	ug/l	
	p-Isopropyltoluene	Blank	<1.0	ug/l	
	n-Propylbenzene	Blank	<1.0	ug/l	
	sec-Butylbenzene	Blank	<1.0	ug/l	
	tert-Butylbenzene	Blank	<1.0	ug/l	
	1,2,3-Trichlorobenzene	Blank	<5.0	ug/l	
	1,2,4-Trichlorobenzene	Blank	<1.0	ug/l	
	1,2,4-Trimethylbenzene	Blank	<1.0	ug/l	
	1,3,5-Trimethylbenzene	Blank	<1.0	ug/l	
	Dibromomethane	Blank	<1.0	ug/l	
	cis-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	4-Chlorotoluene	Blank	<1.0	ug/l	
	1,1-Dichloropropene	Blank	<2.0	ug/l	
	1,2-Dichloropropane	Blank	<1.0	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<1.0	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<1.0	ug/l	
	1,2,3-Trichloropropane	Blank	<2.0	ug/l	
	n-Butylbenzene	Blank	<1.0	ug/l	
	Dichlorodifluoromethane	Blank	<5.0	ug/l	
	Bromochloromethane	Blank	<1.0	ug/l	
	Bromobenzene	Blank	<1.0	ug/l	
	Acrylonitrile	Blank	<5.0	ug/l	
	Carbon Disulfide	Blank	<3.0	ug/l	
	2-Hexanone	Blank	<10.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.0	ug/l	
	Diethyl Ether	Blank	<2.0	ug/l	
	Bromodichloromethane	Blank	<1.0	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<5.0	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	
	Tetrahydrofuran	Blank	<10.0	ug/l	
	tert-Butyl Alcohol	Blank	<20.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	
	tert-Amylmethyl Ether	Blank	<0.5	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: HG-6438

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-85975					
	Mercury	Blank	<0.00004	mg/l	

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QC SUMMARY REPORT

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Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: HGA/AA-5107

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-86006					
	Silver	Blank	<0.0010	mg/l	
	Arsenic	Blank	<0.0010	mg/l	
	Lead	Blank	<0.0010	mg/l	
	Antimony	Blank	<0.0030	mg/l	
	Selenium	Blank	<0.0010	mg/l	
LFBLANK-49954					
	Silver	Lab Fort Blank Amt.	2.0000	mg/l	
		Lab Fort Blk. Found	2.2410	mg/l	
		Lab Fort Blk. % Rec.	112.0500	%	
	Arsenic	Lab Fort Blank Amt.	2.0000	mg/l	
		Lab Fort Blk. Found	2.2740	mg/l	
		Lab Fort Blk. % Rec.	113.7000	%	
	Lead	Lab Fort Blank Amt.	2.0000	mg/l	
		Lab Fort Blk. Found	2.0210	mg/l	
		Lab Fort Blk. % Rec.	101.0500	%	
	Antimony	Lab Fort Blank Amt.	2.0000	mg/l	
		Lab Fort Blk. Found	1.4540	mg/l	
		Lab Fort Blk. % Rec.	72.7000	%	85-115
	Selenium	Lab Fort Blank Amt.	2.0000	mg/l	
		Lab Fort Blk. Found	1.7470	mg/l	
		Lab Fort Blk. % Rec.	87.3500	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
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BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: ICP-13820

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-85918					
	Cadmium	Blank	0.0005	mg/l	
	Chromium	Blank	0.023	mg/l	
	Copper	Blank	<0.0005	mg/l	
	Iron	Blank	<0.03	mg/l	
	Nickel	Blank	<0.003	mg/l	
	Zinc	Blank	<0.005	mg/l	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: SOLIDS-5180

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-30777					
	Total suspended solids	Standard Measured	196.4	mg/l	
		Standard Amt Added	200.0	mg/l	
		Standard % Recovery	98.2	%	88.5-106

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96091

QC Batch Number: WETCHEM-10900

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09416					
	Phenolics	Sample Amount	0.0760	mg/l	
		Duplicate Value	0.0680	mg/l	
		Duplicate RPD	11.1111	%	
		Sample Amount	0.0760	mg/l	
		Matrix Spk Amt Added	0.5000	mg/l	
		MS Amt Measured	0.5270	mg/l	
		Matrix Spike % Rec.	90.2000	%	70.3-113
LFBLANK-50028					
	Phenolics	Lab Fort Blank Amt.	0.5000	mg/l	
		Lab Fort Blk. Found	0.5120	mg/l	
		Lab Fort Blk. % Rec.	102.4000	%	89.7-118
STDADD-30808					
	Phenolics	Standard Measured	0.5350	mg/l	
		Standard Amt Added	0.5000	mg/l	
		Standard % Recovery	107.0000	%	92.6-117

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No. : HGA/AA-5107
Sample ID : LFBLANK-49954
Analysis : Antimony

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

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CHAIN OF CUSTODY RECORD

Lims# 96091

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: CSW
Address: 180 Stone St.
Clinton, MA 01510
Attention: Mike Bricher (MCB)
Project Location: 39 Watatic Pond
Sampled By: CCP/DJD

Telephone: (978) 368-6320
Project # 5082
Client PO # (*)

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☒ WEBSITE CLIENT
Fax #:
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes _____ proposal date
State Form Required? ☐ yes ☒ no

Field ID	Sample Description	Lab # 06B	Date Sampled Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	TSS x 160.2 ~~Chromium III, Sol, TRC x 3305 Chromium VI~~	TPH x 1664	VOC x 8260	PAH Group I + II x 625	Total phthalates BB-Phthalates x 625	PCP x 625	Total Metals Ag, Zn, Fe, Sb, As, Cd, Cr, Cu, Pb, Hg, Ni, Se	Total Cyanide SM 4500	Total phenols 604 or 615	PCBs x 608 or 1668
~~Project Inlet~~ MW-2	~~Project~~ Tank MW-2	09416/17	3/15/06	9:00		X	WW		X	X	X	X	X	X	X	X	X	X

# of containers	2	2	4	4	2	2	2	1	2	2
**Preservation	/	H	H	/	/	/	N	X	S	/
~Cont.Code	P	A	V	A	A	A	P	P	A	A

~Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V= vial, S=summa can, T=tedlar bag, O=Other

Client Comments:

Laboratory Comments:
(*) Do not analyze TRC, Cr^{6+}, & Cr^{3+} per Mike Bricher.
Rec'd past hold, AP 3/17/06 15:20

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Craig C. Paradis	3/15/06 2pm
Received by: (signature)	Date/Time:
[illegible]	3/17/06 0135
Relinquished by: (signature)	Date/Time:
[illegible]	3/17/06 1515
Received by: (signature)	Date/Time:
Victor Gerentino 4.0°C	3/17/06 1515

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other 5-Day
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? GW-1
Data Enhancement Project/RCP? ☐ Y ☒ N
Special Requirements or DL's: Refer to US EPA App. III for minimum levels + test methods

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

(W)

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

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East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

SAMPLE RECEIPT CHECKLIST

CLIENT NAME: CJW

RECEIVED BY: VAF DATE: 3-~~16~~ 17-06 (VAF)

1. Was chain of custody relinquished and signed? YES NO
2. Does Chain agree with samples? YES NO

If not, explain:

3. All Samples in good condition? YES NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C? YES NO Degrees: 4.0°C
5. Are there any on hold samples? YES NO
6. Laboratory analysts notified? YES NO

Who LL Time 1515 Date 3-~~16~~ 17-06 (VAF)

7. Location where samples are stored: 1C

CONTAINERS SENT IN TO CON-TEST	# of containers	CONTAINERS SENT TO CON-TEST	# of containers
1 liter amber	14	Air Cassettes	
500 ml amber		8 oz clear jar	
250 ml amber (8oz. Amber)		4 oz clear jar	
1 liter plastic	2	2 oz clear jar	
500 ml plastic		Plastic bag	
250 ml plastic	3	Encore	
40 ml vial	4	Brass Sleeves	
Colisure bottle		Tubes	
Dissolved oxygen bottle		Summa cans	
Flashpoint bottle		Other	

Laboratory comments: WC took 1Lp for TSS

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REPORT DATE 3/24/2006

CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510
ATTN: MICHAEL BRICHER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-96080
JOB NUMBER: 5082

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 39 WATATIC POND

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
~~MW-1~~	~~06B09358~~	~~GRND WATER~~	~~MONITOR WELL~~	~~eph - water 04~~
~~MW-1~~	~~06B09358~~	~~GRND WATER~~	~~MONITOR WELL~~	~~vph - water 04~~
~~MW-1~~	~~06B09361~~	~~GRND WATER~~	~~MONITOR WELL~~	~~pah - low water~~
MW-2	06B09359	GRND WATER	MONITOR WELL	eph - water 04
MW-2	06B09359	GRND WATER	MONITOR WELL	vph - water 04
MW-2	06B09362	GRND WATER	MONITOR WELL	pah - low water
~~MW-3~~	~~06B09360~~	~~GRND WATER~~	~~MONITOR WELL~~	~~eph - water 04~~
~~MW-3~~	~~06B09360~~	~~GRND WATER~~	~~MONITOR WELL~~	~~vph - water 04~~
~~MW-3~~	~~06B09363~~	~~GRND WATER~~	~~MONITOR WELL~~	~~pah - low water~~

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REPORT DATE 3/24/2006

CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510
ATTN: MICHAEL BRICHER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-96080
JOB NUMBER: 5082

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMS-96080

CASE NARRATIVE SUMMARY:

IN METHOD 8270, BENZIDINE TAILING DID NOT MEET METHOD SPECIFICATIONS.

IN METHOD MA-EPH WATER, THE LABORATORY FORTIFIED BLANK DUPLICATE RPD IS OUTSIDE OF CONTROL LIMITS FOR NAPHTHALENE, ACENAPHTHENE AND 2-METHYLNAPHTHALENE. REDUCED PRECISION IS ANTICIPATED
FOR ANY REPORTED VALUE FOR THESE COMPOUNDS.

THERE ARE NO OTHER ANALYTICAL ISSUES WHICH AFFECT THE USABILITY OF THE DATA.

DETAILED CASE NARRATIVE:

VOLATILE PETROLEUM HYDROCARBONS (VPH) MADEP-VPH-04-1.1

RECOMMENDED SAMPLE HOLDING TIMES WERE NOT EXCEEDED FOR ALL SAMPLES ANALYZED BY THE VPH METHOD UNLESS LISTED BELOW: NONE EXCEEDED

ALL VPH SAMPLES WERE RECEIVED PRESERVED PROPERLY (WATER SAMPLES pH <2; SOIL SAMPLES IN METHANOL WITH A SOIL/METHANOL RATIO OF 1:1 +/- 25% COMPLETELY COVERED BY METHANOL) IN THE PROPER CONTAINERS AT 4° C. +/- 2° AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS SPECIFIED BELOW: ALL PROPERLY PRESERVED

THE VPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMIT EXCEPT WHERE LISTED BELOW: NO CONTAMINATION NOTED

ALL VPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW: NO DILUTIONS WERE PERFORMED

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR THE VPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES, LABORATORY CONTROL SAMPLE DUPLICATE RECOVERIES, AND LCS DUPLICATE RPDs FOR ALL VPH COMPONENT STANDARD COMPOUNDS WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

ALL VPH SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

VPH MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES, SAMPLE DUPLICATE RPDs AND MSDRPD, IF REQUESTED IN THIS BATCH WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE REQUESTED

RESULTS FOR ALL ANALYTE-LIST COMPOUNDS WERE REPORTED FOR VPH UNLESS LISTED BELOW: ALL REPORTED

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) MADEP-EPH-04-1.1

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/24/2006

CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510
ATTN: MICHAEL BRICHER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-96080
JOB NUMBER: 5082

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

RECOMMENDED SAMPLE HOLDING TIMES WERE NOT EXCEEDED FOR ALL SAMPLES ANALYZED BY THE EPH METHOD UNLESS LISTED BELOW: NONE EXCEEDED

ALL EPH SAMPLES WERE RECEIVED PRESERVED PROPERLY (WATER SAMPLES pH <2) IN THE PROPER CONTAINERS AT 4° C. +/- 2° AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS SPECIFIED BELOW: ALL PROPERLY PRESERVED

SPE CARTRIDGE CONTAMINATION WITH NON-PETROLEUM COMPOUNDS, IF PRESENT, IS VERIFIED BY GC/MS IN EACH METHOD BLANK PER EXTRACTION BATCH AND EXCLUDED FROM C11-C22 AROMATIC RANGE FRACTION IN ALL SAMPLES IN THE BATCH. THE EPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMITS EXCEPT WHERE LISTED BELOW: NO CONTAMINATION NOTED

ALL EPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW: NO DILUTIONS WERE PERFORMED

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR EPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES, LABORATORY CONTROL SAMPLE DUPLICATE RECOVERIES, AND LCS DUPLICATE RPDs FOR ALL EPH TARGET COMPOUNDS AND RANGES, INCLUDING NAPHTHALENE AND 2-METHYLNAPHTHALENE BREAKTHROUGH INTO THE ALIPHATIC FRACTION WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW:
LABORATORY FORTIFIED BLANK DUPLICATE RPD IS OUTSIDE OF CONTROL LIMITS FOR NAPHTHALENE, ACENAPHTHENE AND 2-METHYLNAPHTHALENE. REDUCED PRECISION IS ANTICIPATED FOR ANY REPORTED VALUE FOR THESE COMPOUNDS.

ALL EPH SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

EPH MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES, SAMPLE DUPLICATE RPDs AND MSDRPD, IF REQUESTED IN THIS BATCH WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE REQUESTED

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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REPORT DATE 3/24/2006

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180 STONE STREET
CLINTON, MA 01510
ATTN: MICHAEL BRICHER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-96080
JOB NUMBER: 5082

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Edward Denson 3/24/06
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

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MICHAEL BRICHER
CUSHING, JAMMALLO & WHEELER
180 STONE STREET
CLINTON, MA 01510

3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : MW-2

LIMS-BAT #: LIMS-96080
Job Number: 5082

Sample ID : 06B09359

Sampled : 3/15/2006
MONITOR WELL

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
C9-C18 Aliphatics	ug/l	ND	03/23/06	CJM	150.			
C19-C36 Aliphatics	ug/l	ND	03/23/06	CJM	150.			
Unadjusted C11-C22 Aromatics	ug/l	ND	03/23/06	CJM	100.			
C11-C22 Aromatics	ug/l	ND	03/23/06	CJM	100.			
Acenaphthene	ug/l	ND	03/23/06	CJM	1.0			
Acenaphthylene	ug/l	ND	03/23/06	CJM	1.0			
Anthracene	ug/l	ND	03/23/06	CJM	1.0			
Benzo(a)anthracene	ug/l	ND	03/23/06	CJM	1.0			
Benzo(a)pyrene	ug/l	ND	03/23/06	CJM	1.0			
Benzo(b)fluoranthene	ug/l	ND	03/23/06	CJM	1.0			
Benzo(g,h,i)perylene	ug/l	ND	03/23/06	CJM	1.0			
Benzo(k)fluoranthene	ug/l	ND	03/23/06	CJM	1.0			
Chrysene	ug/l	ND	03/23/06	CJM	1.0			
Dibenzo(a,h)anthracene	ug/l	ND	03/23/06	CJM	1.0			
Fluoranthene	ug/l	ND	03/23/06	CJM	1.0			
Fluorene	ug/l	ND	03/23/06	CJM	1.0			
Indeno(1,2,3-cd)pyrene	ug/l	ND	03/23/06	CJM	1.0			
2-Methylnaphthalene	ug/l	ND	03/23/06	CJM	1.0			
Naphthalene	ug/l	ND	03/23/06	CJM	1.0			
Phenanthrene	ug/l	ND	03/23/06	CJM	1.0			
Pyrene	ug/l	ND	03/23/06	CJM	1.0			
Date Extracted EPH Water		3/18/2006	03/23/06	CJM				

Analytical Method:
MADEP-EPH-04-1

SAMPLES ARE PRESERVED TO pH < 2.0 WITH HYDROCHLORIC ACID (HCL).
SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C10-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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180 STONE STREET
CLINTON, MA 01510

3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : MW-1

LIMS-BAT #: LIMS-96080
Job Number: 5082

Sample ID : 06B09361
Sampled : 3/15/2006
MONITOR WELL
Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Benzo(a)anthracene	ug/l	ND	03/22/06	BGL	0.050			
Benzo(a)pyrene	ug/l	ND	03/22/06	BGL	0.100			
Benzo(b)fluoranthene	ug/l	ND	03/22/06	BGL	0.050			
Benzo(g,h,i)perylene	ug/l	ND	03/22/06	BGL	0.500			
Benzo(k)fluoranthene	ug/l	ND	03/22/06	BGL	0.200			
Chrysene	ug/l	ND	03/22/06	BGL	0.20			
Dibenz(a,h)anthracene	ug/l	ND	03/22/06	BGL	0.500			
Indeno(1,2,3-cd)pyrene	ug/l	ND	03/22/06	BGL	0.500			

Field Sample # : MW-2

Sample ID : 06B09362
Sampled : 3/15/2006
MONITOR WELL
Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Benzo(a)anthracene	ug/l	ND	03/22/06	BGL	0.050			
Benzo(a)pyrene	ug/l	ND	03/22/06	BGL	0.100			
Benzo(b)fluoranthene	ug/l	ND	03/22/06	BGL	0.050			
Benzo(g,h,i)perylene	ug/l	ND	03/22/06	BGL	0.500			
Benzo(k)fluoranthene	ug/l	ND	03/22/06	BGL	0.200			
Chrysene	ug/l	ND	03/22/06	BGL	0.20			
Dibenz(a,h)anthracene	ug/l	ND	03/22/06	BGL	0.500			
Indeno(1,2,3-cd)pyrene	ug/l	ND	03/22/06	BGL	0.500			

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180 STONE STREET
CLINTON, MA 01510

Purchase Order No.:

3/24/2006

Project Location: 39 WATATIC POND
Date Received: 3/17/2006
Field Sample # : MW-2

LIMS-BAT #: LIMS-96080
Job Number: 5082

Sample ID : 06B09359

Sampled : 3/15/2006
MONITOR WELL

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Unadjusted C5-C8 Aliphatics	ug/l	ND	03/20/06	EH	100.			
C5-C8 Aliphatics	ug/l	ND	03/20/06	EH	100.			
Unadjusted C9-C12 Aliphatics	ug/l	257.	03/20/06	EH	100.			
C9-C12 Aliphatics	ug/l	195.	03/20/06	EH	100.			
C9-C10 Aromatics	ug/l	ND	03/20/06	EH	100.			
Benzene	ug/l	5.7	03/20/06	EH	1.0			
Ethyl Benzene	ug/l	5.6	03/20/06	EH	1.0			
MTBE	ug/l	ND	03/20/06	EH	1.0			
Naphthalene	ug/l	ND	03/20/06	EH	10.0			
Toluene	ug/l	ND	03/20/06	EH	1.0			
m/p-Xylene	ug/l	32.8	03/20/06	EH	2.0			
o-Xylene	ug/l	23.0	03/20/06	EH	1.0			

Analytical Method:
MADEP-VPH-04-1.1

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED.
C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFOMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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3/24/2006

Purchase Order No.:

Project Location: 39 WATATIC POND
Date Received: 3/17/2006

LIMS-BAT #: LIMS-96080
Job Number: 5082

** END OF REPORT **

RL = Reporting Limit

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ANALYTICAL LABORATORY
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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15135

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09358					
	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	120.8	%	70-130
06B09359					
	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	125.8	%	70-130
06B09360					
	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	121.5	%	70-130
BLANK-86118					
	C5-C8 Aliphatics	Blank	<100.	ug/l	
	C9-C12 Aliphatics	Blank	<100.	ug/l	
	Unadjusted C5-C8 Aliphatics	Blank	<100.	ug/l	
	Unadjusted C9-C12 Aliphatics	Blank	<100.	ug/l	
LFBLANK-50051					
	Nonane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	97.9	ug/l	
		Lab Fort Blk. % Rec.	97.9	%	30-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	92.5	ug/l	
		Dup Lab Fort Bl %Rec	92.5	%	30-130
		Lab Fort Blank Range	5.4	units	
		Lab Fort Bl. Av. Rec	95.2	%	
		LFB Duplicate RPD	5.7	%	0-25
	Pentane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	116.0	ug/l	
		Lab Fort Blk. % Rec.	116.0	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	117.0	ug/l	
		Dup Lab Fort Bl %Rec	117.0	%	70-130
		Lab Fort Blank Range	1.0	units	
		Lab Fort Bl. Av. Rec	116.5	%	
		LFB Duplicate RPD	0.9	%	0-25
	2-Methylpentane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	105.0	ug/l	
		Lab Fort Blk. % Rec.	105.0	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	99.1	ug/l	
		Dup Lab Fort Bl %Rec	99.1	%	70-130
		Lab Fort Blank Range	5.9	units	
		Lab Fort Bl. Av. Rec	102.0	%	
		LFB Duplicate RPD	5.8	%	0-25
	2,2,4-Trimethylpentane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	99.9	ug/l	
		Lab Fort Blk. % Rec.	99.9	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	97.5	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15135

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50051					
	2,2,4-Trimethylpentane	Dup Lab Fort Bl %Rec	97.5	%	70-130
		Lab Fort Blank Range	2.4	units	
		Lab Fort Bl. Av. Rec	98.7	%	
		LFB Duplicate RPD	2.4	%	0-25
	n-Decane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	96.8	ug/l	
		Lab Fort Blk. % Rec.	96.8	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	82.1	ug/l	
		Dup Lab Fort Bl %Rec	82.1	%	70-130
		Lab Fort Blank Range	14.7	units	
		Lab Fort Bl. Av. Rec	89.4	%	
		LFB Duplicate RPD	16.4	%	0-25
	n-Butylcyclohexane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	96.4	ug/l	
		Lab Fort Blk. % Rec.	96.4	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	92.5	ug/l	
		Dup Lab Fort Bl %Rec	92.5	%	70-130
		Lab Fort Blank Range	3.9	units	
		Lab Fort Bl. Av. Rec	94.4	%	
		LFB Duplicate RPD	4.1	%	0-25

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

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Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15142

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09358					
	2-Fluorobiphenyl	Surrogate Recovery	71.9	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	74.8	%	40-140
	Chlorooctadecane	Sur. Recovery	42.7	%	40-140
	Terphenyl	Sur. Recovery	80.6	%	40-140
06B09359					
	2-Fluorobiphenyl	Surrogate Recovery	56.9	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	51.4	%	40-140
	Chlorooctadecane	Sur. Recovery	68.8	%	40-140
	Terphenyl	Sur. Recovery	75.6	%	40-140
06B09360					
	2-Fluorobiphenyl	Surrogate Recovery	71.0	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	73.7	%	40-140
	Chlorooctadecane	Sur. Recovery	54.4	%	40-140
	Terphenyl	Sur. Recovery	86.7	%	40-140
BLANK-86154					
	Naphthalene	Blank	<1.0	ug/l	
	Acenaphthene	Blank	<1.0	ug/l	
	Acenaphthylene	Blank	<1.0	ug/l	
	Anthracene	Blank	<1.0	ug/l	
	Benzo(a)anthracene	Blank	<1.0	ug/l	
	Benzo(a)pyrene	Blank	<1.0	ug/l	
	Benzo(b)fluoranthene	Blank	<1.0	ug/l	
	Benzo(g,h,i)perylene	Blank	<1.0	ug/l	
	Chrysene	Blank	<1.0	ug/l	
	Dibenzo(a,h)anthracene	Blank	<1.0	ug/l	
	Fluoranthene	Blank	<1.0	ug/l	
	Fluorene	Blank	<1.0	ug/l	
	Indeno(1,2,3-cd)pyrene	Blank	<1.0	ug/l	
	2-Methylnaphthalene	Blank	<1.0	ug/l	
	Phenanthrene	Blank	<1.0	ug/l	
	Pyrene	Blank	<1.0	ug/l	
	Benzo(k)fluoranthene	Blank	<1.0	ug/l	
	Naphthalene Aliphatic Fraction	Blank	<1.0	ug/l	
	2-Methylnaphthalene Aliphatic Fraction	Blank	<1.0	ug/l	
	Unadjusted C11-C22 Aromatics	Blank	<100.	ug/l	
	C9-C18 Aliphatics	Blank	<150.	ug/l	
	C19-C36 Aliphatics	Blank	<150.	ug/l	
	C11-C22 Aromatics	Blank	<100.	ug/l	
LFBLANK-50081					
	Naphthalene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	27.0	ug/l	
		Lab Fort Blk. % Rec.	54.0	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	

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QC SUMMARY REPORT

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Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15142

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50081					
	Naphthalene	Dup Lab Fort Bl. Fnd	20.0	ug/l	
		Dup Lab Fort Bl %Rec	40.0	%	40-140
		Lab Fort Blank Range	14.0	units	
		Lab Fort Bl. Av. Rec	47.0	%	
		LFB Duplicate RPD	29.8	%	0-25
	Acenaphthene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	36.8	ug/l	
		Lab Fort Blk. % Rec.	73.6	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	26.8	ug/l	
		Dup Lab Fort Bl %Rec	53.6	%	40-140
		Lab Fort Blank Range	20.1	units	
		Lab Fort Bl. Av. Rec	63.6	%	
		LFB Duplicate RPD	31.5	%	0-25
	Acenaphthylene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	36.6	ug/l	
		Lab Fort Blk. % Rec.	73.2	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	32.1	ug/l	
		Dup Lab Fort Bl %Rec	64.3	%	40-140
		Lab Fort Blank Range	8.9	units	
		Lab Fort Bl. Av. Rec	68.7	%	
		LFB Duplicate RPD	13.0	%	0-25
	Anthracene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	48.5	ug/l	
		Lab Fort Blk. % Rec.	97.1	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	42.9	ug/l	
		Dup Lab Fort Bl %Rec	85.9	%	40-140
		Lab Fort Blank Range	11.2	units	
		Lab Fort Bl. Av. Rec	91.5	%	
		LFB Duplicate RPD	12.2	%	0-25
	Benzo(a)anthracene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	49.3	ug/l	
		Lab Fort Blk. % Rec.	98.6	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	44.3	ug/l	
		Dup Lab Fort Bl %Rec	88.6	%	40-140
		Lab Fort Blank Range	10.0	units	
		Lab Fort Bl. Av. Rec	93.6	%	
		LFB Duplicate RPD	10.7	%	0-25
	Benzo(a)pyrene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	47.6	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15142

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50081					
	Benzo(a)pyrene	Lab Fort Blk. % Rec.	95.2	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	43.2	ug/l	
		Dup Lab Fort Bl %Rec	86.5	%	40-140
		Lab Fort Blank Range	8.7	units	
		Lab Fort Bl. Av. Rec	90.8	%	
		LFB Duplicate RPD	9.6	%	0-25
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	45.6	ug/l	
		Lab Fort Blk. % Rec.	91.3	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	43.4	ug/l	
		Dup Lab Fort Bl %Rec	86.8	%	40-140
		Lab Fort Blank Range	4.5	units	
		Lab Fort Bl. Av. Rec	89.0	%	
		LFB Duplicate RPD	5.0	%	0-25
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	46.4	ug/l	
		Lab Fort Blk. % Rec.	92.8	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	41.7	ug/l	
		Dup Lab Fort Bl %Rec	83.4	%	40-140
		Lab Fort Blank Range	9.4	units	
		Lab Fort Bl. Av. Rec	88.1	%	
		LFB Duplicate RPD	10.7	%	0-25
	Chrysene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	49.2	ug/l	
		Lab Fort Blk. % Rec.	98.4	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	44.3	ug/l	
		Dup Lab Fort Bl %Rec	88.6	%	40-140
		Lab Fort Blank Range	9.8	units	
		Lab Fort Bl. Av. Rec	93.5	%	
		LFB Duplicate RPD	10.5	%	0-25
	Dibenzo(a,h)anthracene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	46.4	ug/l	
		Lab Fort Blk. % Rec.	92.7	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	41.3	ug/l	
		Dup Lab Fort Bl %Rec	82.6	%	40-140
		Lab Fort Blank Range	10.1	units	
		Lab Fort Bl. Av. Rec	87.7	%	
		LFB Duplicate RPD	11.5	%	0-25

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Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15142

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50081					
	Fluoranthene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	47.7	ug/l	
		Lab Fort Blk. % Rec.	95.5	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	43.4	ug/l	
		Dup Lab Fort Bl %Rec	86.8	%	40-140
		Lab Fort Blank Range	8.6	units	
		Lab Fort Bl. Av. Rec	91.1	%	
		LFB Duplicate RPD	9.5	%	0-25
	Fluorene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	41.2	ug/l	
		Lab Fort Blk. % Rec.	82.3	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	36.9	ug/l	
		Dup Lab Fort Bl %Rec	73.8	%	40-140
		Lab Fort Blank Range	8.5	units	
		Lab Fort Bl. Av. Rec	78.1	%	
		LFB Duplicate RPD	10.9	%	0-25
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	42.8	ug/l	
		Lab Fort Blk. % Rec.	85.7	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	38.7	ug/l	
		Dup Lab Fort Bl %Rec	77.3	%	40-140
		Lab Fort Blank Range	8.4	units	
		Lab Fort Bl. Av. Rec	81.5	%	
		LFB Duplicate RPD	10.2	%	0-25
	2-Methylnaphthalene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	30.8	ug/l	
		Lab Fort Blk. % Rec.	61.6	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	22.2	ug/l	
		Dup Lab Fort Bl %Rec	44.3	%	40-140
		Lab Fort Blank Range	17.2	units	
		Lab Fort Bl. Av. Rec	52.9	%	
		LFB Duplicate RPD	32.6	%	0-25
	Phenanthrene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	46.0	ug/l	
		Lab Fort Blk. % Rec.	92.1	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	41.3	ug/l	
		Dup Lab Fort Bl %Rec	82.6	%	40-140
		Lab Fort Blank Range	9.5	units	

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QC Batch Number: GC/FID-15142

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50081					
	Phenanthrene	Lab Fort Bl. Av. Rec	87.3	%	
		LFB Duplicate RPD	10.9	%	0-25
	Pyrene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	49.1	ug/l	
		Lab Fort Blk. % Rec.	98.2	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	44.2	ug/l	
		Dup Lab Fort Bl %Rec	88.4	%	40-140
		Lab Fort Blank Range	9.7	units	
		Lab Fort Bl. Av. Rec	93.3	%	
		LFB Duplicate RPD	10.4	%	0-25
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	50.0	ug/l	
		Lab Fort Blk. Found	49.7	ug/l	
		Lab Fort Blk. % Rec.	99.4	%	40-140
		Dup Lab Fort Bl Amt.	50.0	ug/l	
		Dup Lab Fort Bl. Fnd	46.8	ug/l	
		Dup Lab Fort Bl %Rec	93.7	%	40-140
		Lab Fort Blank Range	5.8	units	
		Lab Fort Bl. Av. Rec	96.5	%	
		LFB Duplicate RPD	6.0	%	0-25
	Naphthalene Aliphatic Fraction	Lab Fort Blank Amt.	27.0	ug/l	
		Lab Fort Blk. Found	0.0	ug/l	
		Lab Fort Blk. % Rec.	0.0	%	0-5
		Dup Lab Fort Bl Amt.	20.0	ug/l	
		Dup Lab Fort Bl. Fnd	0.0	ug/l	
		Dup Lab Fort Bl %Rec	0.0	%	0-5
		Lab Fort Blank Range	0.0	units	
		Lab Fort Bl. Av. Rec	0.0	%	
	2-Methylnaphthalene Aliphatic Fraction	Lab Fort Blank Amt.	30.8	ug/l	
		Lab Fort Blk. Found	1.0	ug/l	
		Lab Fort Blk. % Rec.	3.2	%	0-5
		Dup Lab Fort Bl Amt.	22.2	ug/l	
		Dup Lab Fort Bl. Fnd	0.0	ug/l	
		Dup Lab Fort Bl %Rec	0.0	%	0-5
		Lab Fort Blank Range	3.2	units	
		Lab Fort Bl. Av. Rec	1.6	%	
		LFB Duplicate RPD	200.0	%	
	Unadjusted C11-C22 Aromatics	Lab Fort Blank Amt.	850.0	ug/l	
		Lab Fort Blk. Found	805.6	ug/l	
		Lab Fort Blk. % Rec.	94.8	%	40-140
		Dup Lab Fort Bl Amt.	850.0	ug/l	
		Dup Lab Fort Bl. Fnd	710.9	ug/l	
		Dup Lab Fort Bl %Rec	83.6	%	40-140

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Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GC/FID-15142

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50081					
	Unadjusted C11-C22 Aromatics	Lab Fort Blank Range	11.1	units	
		Lab Fort Bl. Av. Rec	89.2	%	
		LFB Duplicate RPD	12.5	%	0-25
	C9-C18 Aliphatics	Lab Fort Blank Amt.	300.0	ug/l	
		Lab Fort Blk. Found	210.8	ug/l	
		Lab Fort Blk. % Rec.	70.3	%	40-140
		Dup Lab Fort Bl Amt.	300.0	ug/l	
		Dup Lab Fort Bl. Fnd	247.5	ug/l	
		Dup Lab Fort Bl %Rec	82.5	%	40-140
		Lab Fort Blank Range	12.3	units	
		Lab Fort Bl. Av. Rec	76.4	%	
		LFB Duplicate RPD	16.0	%	0-25
	C19-C36 Aliphatics	Lab Fort Blank Amt.	400.0	ug/l	
		Lab Fort Blk. Found	400.3	ug/l	
		Lab Fort Blk. % Rec.	100.1	%	40-140
		Dup Lab Fort Bl Amt.	400.0	ug/l	
		Dup Lab Fort Bl. Fnd	392.5	ug/l	
		Dup Lab Fort Bl %Rec	98.1	%	40-140
		Lab Fort Blank Range	2.0	units	
		Lab Fort Bl. Av. Rec	99.1	%	
		LFB Duplicate RPD	2.0	%	0-25

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QC Batch Number: GC/PID-7466

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09358					
	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	112.2	%	70-130
06B09359					
	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	116.0	%	70-130
06B09360					
	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	114.8	%	70-130
BLANK-86116					
	Benzene	Blank	<1.0	ug/l	
	Ethyl Benzene	Blank	<1.0	ug/l	
	Naphthalene	Blank	<10.0	ug/l	
	Toluene	Blank	<1.0	ug/l	
	o-Xylene	Blank	<1.0	ug/l	
	m/p-Xylene	Blank	<2.0	ug/l	
	C9-C10 Aromatics	Blank	<100.	ug/l	
	MTBE	Blank	<1.0	ug/l	
LFBLANK-50049					
	Benzene	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	94.4	ug/l	
		Lab Fort Blk. % Rec.	94.4	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	92.2	ug/l	
		Dup Lab Fort Bl %Rec	92.2	%	70-130
		Lab Fort Blank Range	2.2	units	
		Lab Fort Bl. Av. Rec	93.3	%	
		LFB Duplicate RPD	2.4	%	0-25
	Ethyl Benzene	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	90.6	ug/l	
		Lab Fort Blk. % Rec.	90.6	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	88.4	ug/l	
		Dup Lab Fort Bl %Rec	88.4	%	70-130
		Lab Fort Blank Range	2.2	units	
		Lab Fort Bl. Av. Rec	89.5	%	
		LFB Duplicate RPD	2.5	%	0-25
	Naphthalene	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	72.2	ug/l	
		Lab Fort Blk. % Rec.	72.2	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	73.0	ug/l	
		Dup Lab Fort Bl %Rec	73.0	%	70-130
		Lab Fort Blank Range	0.8	units	
		Lab Fort Bl. Av. Rec	72.6	%	
		LFB Duplicate RPD	1.1	%	0-25
	Toluene	Lab Fort Blank Amt.	100.0	ug/l	

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QC Batch Number: GC/PID-7466

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50049					
	Toluene	Lab Fort Blk. Found	92.6	ug/l	
		Lab Fort Blk. % Rec.	92.6	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	90.7	ug/l	
		Dup Lab Fort Bl %Rec	90.7	%	70-130
		Lab Fort Blank Range	1.9	units	
		Lab Fort Bl. Av. Rec	91.6	%	
		LFB Duplicate RPD	2.1	%	0-25
	o-Xylene	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	92.0	ug/l	
		Lab Fort Blk. % Rec.	92.0	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	90.7	ug/l	
		Dup Lab Fort Bl %Rec	90.7	%	70-130
		Lab Fort Blank Range	1.3	units	
		Lab Fort Bl. Av. Rec	91.4	%	
		LFB Duplicate RPD	1.4	%	0-25
	m/p-Xylene	Lab Fort Blank Amt.	200.0	ug/l	
		Lab Fort Blk. Found	173.0	ug/l	
		Lab Fort Blk. % Rec.	86.5	%	70-130
		Dup Lab Fort Bl Amt.	200.0	ug/l	
		Dup Lab Fort Bl. Fnd	169.0	ug/l	
		Dup Lab Fort Bl %Rec	84.5	%	70-130
		Lab Fort Blank Range	2.0	units	
		Lab Fort Bl. Av. Rec	85.5	%	
		LFB Duplicate RPD	2.3	%	0-25
	MTBE	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	94.9	ug/l	
		Lab Fort Blk. % Rec.	94.9	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	91.1	ug/l	
		Dup Lab Fort Bl %Rec	91.1	%	70-130
		Lab Fort Blank Range	3.8	units	
		Lab Fort Bl. Av. Rec	93.0	%	
		LFB Duplicate RPD	4.1	%	0-25
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	84.6	ug/l	
		Lab Fort Blk. % Rec.	84.6	%	70-130
		Dup Lab Fort Bl Amt.	100.0	ug/l	
		Dup Lab Fort Bl. Fnd	82.1	ug/l	
		Dup Lab Fort Bl %Rec	82.1	%	70-130
		Lab Fort Blank Range	2.5	units	
		Lab Fort Bl. Av. Rec	83.4	%	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50049					
	1,2,4-Trimethylbenzene	LFB Duplicate RPD	3.0	%	0-25

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QC Batch Number: GCMS/SEMI-8038

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B09361					
	Terphenyl	Surrogate Recovery	55.3	%	40-140
06B09362					
	Terphenyl	Surrogate Recovery	53.4	%	40-140
06B09363					
	Terphenyl	Surrogate Recovery	61.3	%	40-140
BLANK-86125					
	Benzo(a)anthracene	Blank	<0.050	ug/l	
	Benzo(a)pyrene	Blank	<0.100	ug/l	
	Benzo(b)fluoranthene	Blank	<0.050	ug/l	
	Benzo(g,h,i)perylene	Blank	<0.500	ug/l	
	Chrysene	Blank	<0.20	ug/l	
	Dibenz(a,h)anthracene	Blank	<0.500	ug/l	
	Indeno(1,2,3-cd)pyrene	Blank	<0.500	ug/l	
	Benzo(k)fluoranthene	Blank	<0.200	ug/l	
LFBLANK-50054					
	Benzo(a)anthracene	Lab Fort Blank Amt.	2.000	ug/l	
		Lab Fort Blk. Found	1.320	ug/l	
		Lab Fort Blk. % Rec.	66.000	%	40-140
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	1.100	ug/l	
		Dup Lab Fort Bl %Rec	55.000	%	
		Lab Fort Blank Range	11.000	units	
		Lab Fort Bl. Av. Rec	60.500	%	
		LFB Duplicate RPD	18.182	%	
	Benzo(a)pyrene	Lab Fort Blank Amt.	2.000	ug/l	
		Lab Fort Blk. Found	1.490	ug/l	
		Lab Fort Blk. % Rec.	74.500	%	40-140
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	1.330	ug/l	
		Dup Lab Fort Bl %Rec	66.500	%	
		Lab Fort Blank Range	8.000	units	
		Lab Fort Bl. Av. Rec	70.500	%	
		LFB Duplicate RPD	11.348	%	
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	2.000	ug/l	
		Lab Fort Blk. Found	1.160	ug/l	
		Lab Fort Blk. % Rec.	58.000	%	40-140
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	0.930	ug/l	
		Dup Lab Fort Bl %Rec	46.500	%	
		Lab Fort Blank Range	11.500	units	
		Lab Fort Bl. Av. Rec	52.250	%	
		LFB Duplicate RPD	22.010	%	
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	2.000	ug/l	

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QC Batch Number: GCMS/SEMI-8038

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50054					
	Benzo(g,h,i)perylene	Lab Fort Blk. Found	1.680	ug/l	
		Lab Fort Blk. % Rec.	84.000	%	30-130
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	1.390	ug/l	
		Dup Lab Fort Bl %Rec	69.500	%	
		Lab Fort Blank Range	14.500	units	
		Lab Fort Bl. Av. Rec	76.750	%	
		LFB Duplicate RPD	18.893	%	
	Chrysene	Lab Fort Blank Amt.	2.00	ug/l	
		Lab Fort Blk. Found	1.72	ug/l	
		Lab Fort Blk. % Rec.	86.00	%	40-140
		Dup Lab Fort Bl Amt.	2.00	ug/l	
		Dup Lab Fort Bl. Fnd	1.45	ug/l	
		Dup Lab Fort Bl %Rec	72.50	%	
		Lab Fort Blank Range	13.50	units	
		Lab Fort Bl. Av. Rec	79.25	%	
		LFB Duplicate RPD	17.03	%	
	Dibenz(a,h)anthracene	Lab Fort Blank Amt.	2.000	ug/l	
		Lab Fort Blk. Found	1.660	ug/l	
		Lab Fort Blk. % Rec.	83.000	%	30-130
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	1.350	ug/l	
		Dup Lab Fort Bl %Rec	67.500	%	
		Lab Fort Blank Range	15.500	units	
		Lab Fort Bl. Av. Rec	75.250	%	
		LFB Duplicate RPD	20.598	%	
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	2.000	ug/l	
		Lab Fort Blk. Found	1.250	ug/l	
		Lab Fort Blk. % Rec.	62.500	%	40-140
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	1.150	ug/l	
		Dup Lab Fort Bl %Rec	57.500	%	
		Lab Fort Blank Range	5.000	units	
		Lab Fort Bl. Av. Rec	60.000	%	
		LFB Duplicate RPD	8.333	%	
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	2.000	ug/l	
		Lab Fort Blk. Found	1.670	ug/l	
		Lab Fort Blk. % Rec.	83.500	%	40-140
		Dup Lab Fort Bl Amt.	2.000	ug/l	
		Dup Lab Fort Bl. Fnd	1.350	ug/l	
		Dup Lab Fort Bl %Rec	67.500	%	
		Lab Fort Blank Range	16.000	units	
		Lab Fort Bl. Av. Rec	75.500	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/24/2006 Lims Bat # : LIMS-96080

QC Batch Number: GCMS/SEMI-8038

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-50054					
	Benzo(k)fluoranthene	LFB Duplicate RPD	21.192	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: **CON-TEST Analytical Laboratory**	Project #: LIMS-96080
Project Location: 39 WATATIC POND	MADEP RTN[1]:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

06B09358 - 06B09363

Sample Matrices: ☒ Groundwater ☐ Soil/Sediment ☐ Drinking Water ☐ Other: _____

MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH (X)	6020 ( )	9014M[2] ( )
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH (X)	7000 S[3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☒ Yes ☐ No[1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒ Yes ☐ No[1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No[1]
D	*VPH and EPH Methods only*: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	☒ Yes ☐ No[1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	☐ Yes ☒ No[1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☒ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Edward Denson	Position: Technical Director
Printed Name: Edward Denson	Date: 3/24/06

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
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EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

Lims# 96080

Company Name: CSW
Address: 180 Stone St.
Clinton, MA 01510
Attention: Mike Bricher (MCB)
Project Location: 39 Watatic Pond
Sampled By: CCP/DSD

Telephone: (978) 368-6320
Project # 5082
Client PO #

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☒ WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes _____ proposal date
State Form Required? ☐ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description	Lab # 06B	Date Sampled Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	# of containers: 8	6												**Preservation: H	H											~Cont.Code: A	V										
									ERH	VOH																																				
MW-1	Monitor Well	09358/61	3/15/06	11:30		X	GW	U	X	X																																				
MW-2	↓	09359/62	↓	8:50		X	GW	U	X	X																																				
MW-3	↓	09360/63	↓	10:00		X	GW	U	X	X																																				

Client Comments:

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:

H - High; **M** - Medium; **L** - Low; **C** - Clean; **U** - Unknown

Relinquished by: (signature)	Date/Time:
Craig C. Paradis	3/15/06 2pm
Received by: (signature) Refrigerator	Date/Time: 3/17/06 1000
Relinquished by: (signature) Jon Marsh	Date/Time: 3/17/06 1515
Received by: (signature) Vito Sorrentino 4.0°C	Date/Time: 3/17/06 1515

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other 5-Day

RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? GW-1
Data Enhancement Project/RCP? ☐ Y ☒ N
Special Requirements or DL's:

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

con-test ANALYTICAL LABORATORY

www.contestlabs.com

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

SAMPLE RECEIPT CHECKLIST

CLIENT NAME: CJW

RECEIVED BY: VIAF DATE: 3-17-06

1. Was chain of custody relinquished and signed? YES NO
2. Does Chain agree with samples? YES NO

If not, explain:

3. All Samples in good condition? YES NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C? YES NO Degrees: 4.0°C
5. Are there any on hold samples? YES NO
6. Laboratory analysts notified? YES NO

Who LL Time 1515 Date 3-17-06

7. Location where samples are stored: 1B

CONTAINERS SENT IN TO CON-TEST	# of containers	CONTAINERS SENT TO CON-TEST	# of containers
1 liter amber	6	Air Cassettes	
500 ml amber		8 oz clear jar	
250 ml amber (8oz. Amber)		4 oz clear jar	
1 liter plastic		2 oz clear jar	
500 ml plastic		Plastic bag	
250 ml plastic		Encore	
40 ml vial	6	Brass Sleeves	
Colisure bottle		Tubes	
Dissolved oxygen bottle		Summa cans	
Flashpoint bottle		Other	

Laboratory comments:

ATTACHMENT B
Remediation General Permit
Notice of Intent Form

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		X	1	GRAB	SM 2540 D	5.0 ug/L			144,000	
2. Total Residual Chlorine	X		1		SM 4500 -	2.0 ug/L			<2.0	
3. Total Petroleum Hydrocarbons		X	2		TPH-1664 VPH/EPH	100 ug/L			195.0	
4. Cyanide		X	1		SM 4500	10 ug/L			43.0	
5. Benzene		X	1		SW 846 8260	1.0 ug/L			7.3	
6. Toluene	X		1			1.0 ug/L			<1.0	
7. Ethylbenzene		X	1			1.0 ug/L			7.0	
8. (m,p,o) Xylenes		X	1			3.0 ug/L			77.8	
9. Total BTEX[4]		X	1			6.0			92.1	

[4] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	X		1	GRAB	SW 846 8260	0.5 ug/L			<0.50	<0.00002
11. Methyl-tert-Butyl Ether (MtBE)		X				1.0 ug/L			1.4	0.0002
12. tert-Butyl Alcohol (TBA)	X					20.0 ug/L			<20.0	<0.0008
13. tert-Amyl Methyl Ether (TAME)	X					0.50 ug/L			<0.50	<0.00002
14. Naphthalene		X				2.0 ug/L			3.3	
15. Carbon Tetra-chloride	X					1.0 ug/L			<1.0	<0.0004
16. 1,4 Dichlorobenzene	X									
17. 1,2 Dichlorobenzene	X									
18. 1,3 Dichlorobenzene	X									
19. 1,1 Dichloroethane	X									
20. 1,2 Dichloroethane	X									
21. 1,1 Dichloroethylene	X									
22. cis-1,2 Dichloro-ethylene	X									
23. Dichloromethane (Methylene Chloride)	X					5.0 ug/L			<5.0	<0.0002
24. Tetrachloroethylene	X					1.0 ug/L			<1.0	<0.00004

[5] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	X		1	GRAB	SW 8260	1.0 ug/L			<1.0	<0.0001
26. 1,1,2 Trichloroethane	X		↓	↓	↓	↓			↓	↓
27. Trichloroethylene	X									
28. Vinyl Chloride	X					2.0 ug/L			<2.0	<0.0003
29. Acetone	X					50.0 ug/L			<50.0	<0.008
30. 1,4 Dioxane	X					50.0 ug/L			<50.0	<0.008
31. Total Phenols		X			420.1	50.0 ug/L			76.0	0.027
32. Pentachlorophenol	X				SW 8270	1.0 ug/L			<1.0	<0.0001
33. Total Phthalates [6] (Phthalate esthers)	X					80.0 ug/L			<80.0	<0.013
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	X					1.0 ug/L			<1.0	<0.0001
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene	X		1	GRAB	SW	0.10 ug/L			<0.10	<0.00001
b. Benzo(a) Pyrene	X					0.10 ug/L			<0.10	<0.00001
c. Benzo(b)Fluoranthene	X					0.05 ug/L			<0.05	<0.000008
d. Benzo(k) Fluoranthene	X					0.20 ug/L			<0.20	<0.00007
e. Chrysene	X					0.20 ug/L			<0.20	<0.00007

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	X		1	GRAB	SW 846 8270	0.50 ug/L			<0.50	<0.00007
g. Indeno(1,2,3-cd) Pyrene	X		1	GRAB	SW 846 8270	0.50 ug/L			<0.50	<0.00007
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene	X		1	GRAB	SW 846 8270	0.30 ug/L			<0.30	<0.00004
i. Acenaphthylene	X		1			0.30 ug/L			<0.30	<0.00004
j. Anthracene	X					0.20 ug/L			<0.20	<0.00003
k. Benzo(ghi) Perylene	X					0.500 ug/L			<0.500	<0.00007
l. Fluoranthene	X					0.500 ug/L			<0.500	<0.00007
m. Fluorene	X					1.0 ug/L			<1.0	<0.0001
n. Naphthalene-	X					1.0 ug/L			<1.0	<0.0001
o. Phenanthrene	X					0.10 ug/L			<0.10	<0.00001
p. Pyrene	X					1.0 ug/L			<1.0	<0.0001
37. Total Polychlorinated Biphenyls (PCBs)	X				EPA 608	0.20 ug/L			<0.20	<0.00007
38. Antimony	X				SM 3113	3.0 ug/L			<3.0	<0.00004
39. Arsenic		X	1	GRAB	SM 3113	1.0 ug/L			1.5	0.00022
40. Cadmium	X				200.7	0.5 ug/L			<0.5	<0.00007
41. Chromium III		X			200.7	4 ug/L			36	0.006
42. Chromium VI		X			200.7	4 ug/L			36	0.006

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		X	1	GRAB	200.7	0.5 ug/L			1.4	0.0002
44. Lead		X			SM 3113	1.0 ug/L			1.1	0.0001
45. Mercury	X				245.1	0.04 ug/L			<0.04	<0.000002
46. Nickel	X				200.7	3.0 ug/L			<3.0	<0.0005
47. Selenium	X				SM 3113	1.0 ug/L			<1.0	<0.00004
48. Silver	X				SM 3113	1.0 ug/L			<1.0	<0.00004
49. Zinc		X			200.7	5.0 ug/L			34.0	0.0055
50. Iron		X			200.7	20 ug/L			7,480	1.22
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ✓ N___	If yes, which metals? IRON
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: IRON DF: 1,224.88	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y X N___ If "Yes," list which metals: IRON

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system: Average flow rate of discharge 25 Maximum flow rate of treatment system 30 Design flow rate of treatment system _____						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct X	Within facility__	Storm drain____	River/brook____	Wetlands_____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: FROM FRAC TANK THROUGH BAG FILTER & 2 L GAC CONTAINERS TO WATATIC POND						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water B,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 82 cfs USGS STREAM STATS Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes____ No ✓ If yes, for which pollutant(s)? Is there a TMDL? Yes No ✓ If yes, for which pollutant(s)?						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes____ No ✓
Has any consultation with the federal services been completed ? No___ or is consultation underway? Yes_____ No ✓
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one): No
a "no jeopardy" opinion? _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No ✓

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: RESIDENCE, 39 WATATIC POND ROAD, ASHBURNHAM, MA 01430

Operator signature: Michael Brick

Title: SR. PROJECT MANAGER

Date: 3-31-2006

CUSHING, JAMMALLO & WHEELER, INC.
Environmental Consultants & Engineers
180 Stone Street
Clinton, Massachusetts 01510
(978) 368-6320 Fax: (978) 368-6121

JOB 39 WATATIC POND ROAD,
SHEET NO. ASHBURNHAM, MA OF
CALCULATED BY DATE
CHECKED BY DATE 3/31/2006
SCALE 5082

CALCULATION of DILUTION FACTOR

$$DF = (Qd + Qs) / Qd$$

DF = Dilution factor
Qd = MAX FLOW RATE
Qs = Receiving WATER 7Q10 (cfs)

Qd = 30 gpm = 0.0669 cfs
Qs = 82 cfs (SOURCE USGS STREAM STATS)

$$DF = \frac{0.0669 + 82}{0.0669} = 1,226.71$$